

Data File : VU036382.D
Acq On : 31 Dec 2019 10:36
Operator : JC/MD
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

Quant Time: Jan 01 01:18:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR122819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 31 07:33:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	300377	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	287343	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	135245	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	93107	4.27	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.40%
7) Chloroethane-d5	1.93	69	87706	4.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.80%
11) 1,1-Dichloroethene-d2	2.59	63	184693	4.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.40%
20) 2-Butanone-d5	4.69	46	247232	44.41	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.82%
24) Chloroform-d	5.11	84	206960	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.74	65	110560	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%
32) Benzene-d6	5.77	84	389735	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
36) 1,2-Dichloropropane-d6	6.73	67	129478	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.40%
41) Toluene-d8	7.93	98	351120	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
43) trans-1,3-Dichloropropene-	8.21	79	54977	4.48	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.60%
46) 2-Hexanone-d5	8.67	63	253612	48.06	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.12%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	108104	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.60%
64) 1,2-Dichlorobenzene-d4	12.21	152	131530	4.56	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	110371	4.600	ug/L 100
3) Chloromethane	1.54	50	107187	4.621	ug/L 93
5) Vinyl chloride	1.62	62	117504	4.675	ug/L 98
6) Bromomethane	1.87	94	66769	4.610	ug/L 92
8) Chloroethane	1.95	64	65749	4.421	ug/L 98
9) Trichlorofluoromethane	2.16	101	165315	4.637	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	90409	4.876	ug/L 99
12) 1,1-Dichloroethene	2.60	96	89593	4.900	ug/L 96
13) Acetone	2.67	43	149864	41.790	ug/L 93
14) Carbon disulfide	2.82	76	283381	4.726	ug/L 99
15) Methyl Acetate	2.99	43	35428	4.476	ug/L 98
16) Methylene chloride	3.08	84	101140	4.358	ug/L 99
17) Methyl tert-butyl Ether	3.41	73	251069	4.747	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	98854	4.829	ug/L 97
19) 1,1-Dichloroethane	3.92	63	181605	4.899	ug/L 97
21) 2-Butanone	4.76	43	241942	41.694	ug/L 93
22) cis-1,2-Dichloroethene	4.71	96	109725	4.775	ug/L # 98

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	45877	4.793	ug/L	90
25) Chloroform	5.13	83	189243	4.808	ug/L	100
27) 1,2-Dichloroethane	5.84	62	121480	4.687	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	172417	4.824	ug/L	98
30) Cyclohexane	5.43	56	175128	4.926	ug/L	97
31) Carbon tetrachloride	5.57	117	148574	4.889	ug/L	99
33) Benzene	5.82	78	409147	4.805	ug/L	100
34) Trichloroethene	6.58	95	111776	4.874	ug/L	96
35) Methylcyclohexane	6.80	83	186261	5.125	ug/L	99
37) 1,2-Dichloropropane	6.83	63	104634	4.764	ug/L	99
38) Bromodichloromethane	7.14	83	143880	4.747	ug/L	95
39) cis-1,3-Dichloropropene	7.64	75	170607	4.738	ug/L	95
40) 4-Methyl-2-pentanone	7.83	43	748539	48.383	ug/L	98
42) Toluene	8.00	91	450615	4.783	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	140943	4.764	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	77862	4.875	ug/L	98
47) Tetrachloroethene	8.58	164	78398	4.858	ug/L	97
48) 2-Hexanone	8.72	43	501788	45.822	ug/L	95
49) Dibromochloromethane	8.84	129	94715	4.481	ug/L	95
50) 1,2-Dibromoethane	8.95	107	74309	4.589	ug/L	98
51) Chlorobenzene	9.47	112	282110	4.803	ug/L	97
52) Ethylbenzene	9.60	91	512629	4.910	ug/L	100
53) m,p-Xylene	9.72	106	196837	4.906	ug/L	98
54) o-Xylene	10.12	106	191635	4.918	ug/L	100
55) Styrene	10.14	104	318231	4.805	ug/L	99
56) Isopropylbenzene	10.51	105	503821	4.870	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	99092	4.602	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	72219	4.766	ug/L	99
61) Bromoform	10.32	173	55436	4.596	ug/L	98
62) 1,3-Dichlorobenzene	11.77	146	213670	4.726	ug/L	97
63) 1,4-Dichlorobenzene	11.86	146	213754	4.781	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	208530	4.897	ug/L	96
66) 1,2-Dibromo-3-chloropropan	13.02	75	18988	4.851	ug/L	88
67) 1,3,5-Trichlorobenzene	13.24	180	156887	4.883	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	112119	4.752	ug/L	98
69) Naphthalene	14.11	128	178694	4.350	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	104784	4.607	ug/L	99

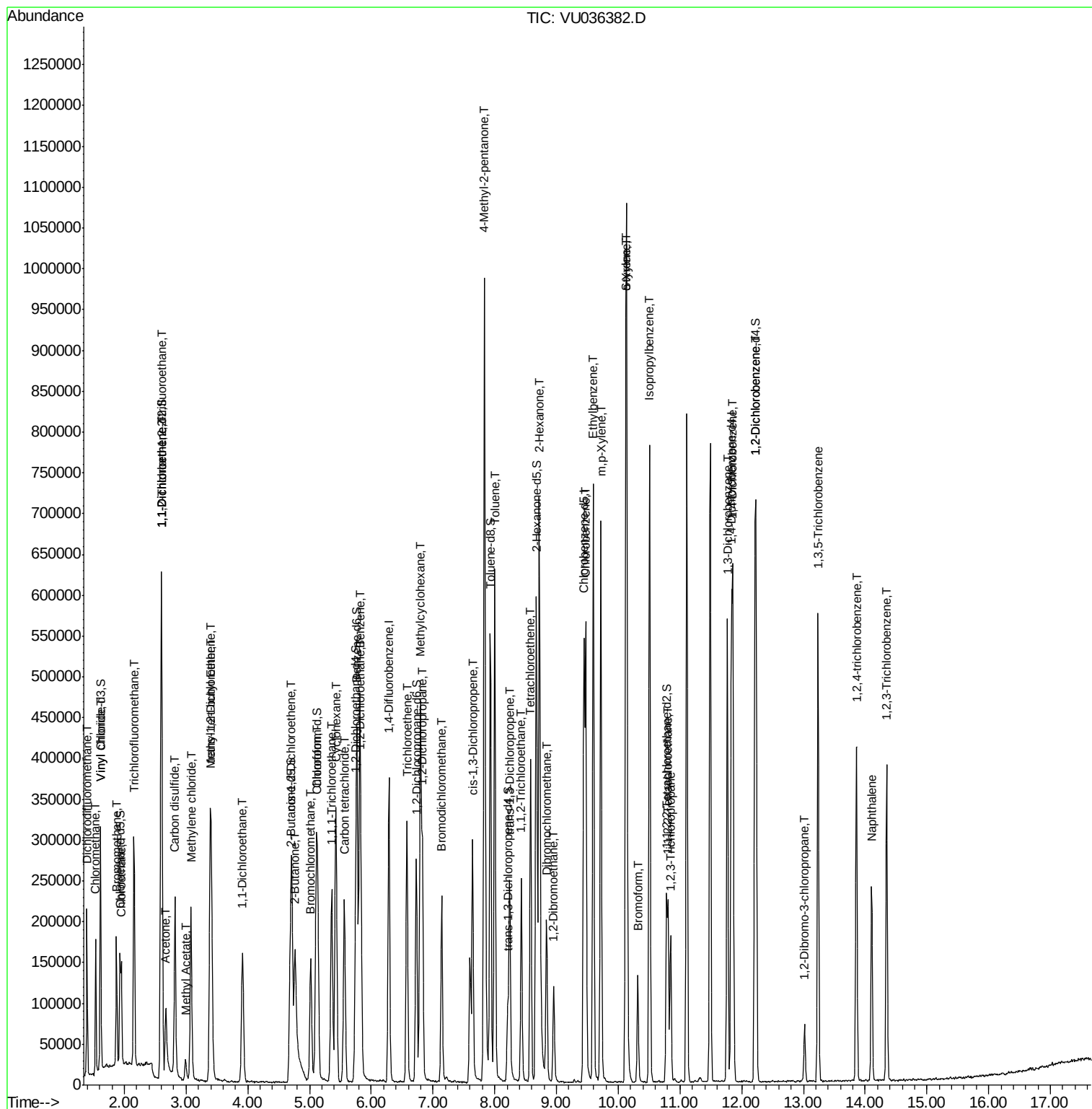
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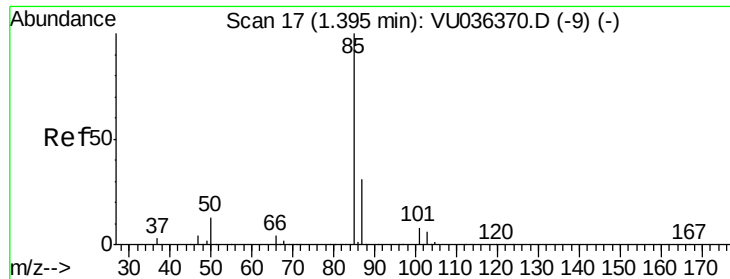
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#2

Dichlorodifluoromethane

Concen: 4.600 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

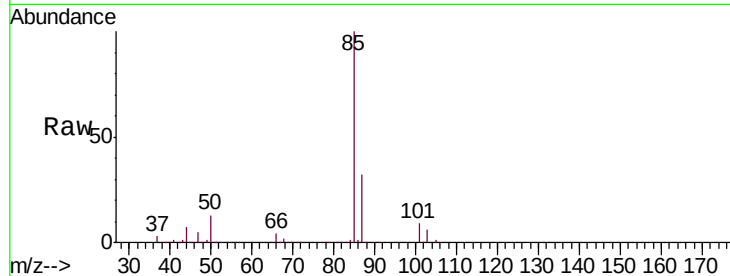
VSTD00509

Tgt Ion: 85 Resp: 110371

Ion Ratio Lower Upper

85 100

87 32.1 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU036370.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036370.D (-9) (-)

1.39

120000

100000

80000

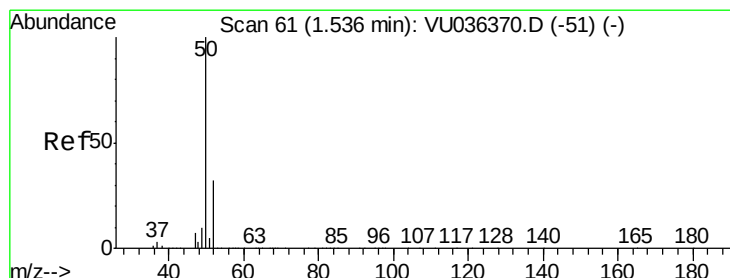
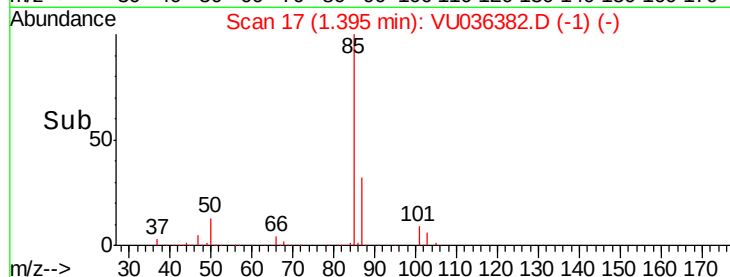
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 4.621 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036382.D

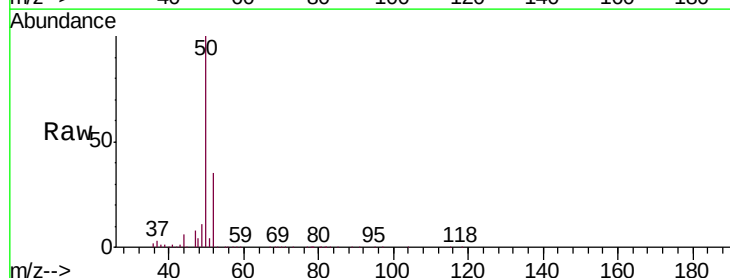
Acq: 31 Dec 2019 10:36

Tgt Ion: 50 Resp: 107187

Ion Ratio Lower Upper

50 100

52 35.3 22.0 40.8



Abundance Ion 50.05 (49.75 to 50.75): VU036370.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU036370.D (-51) (-)

1.54

100000

80000

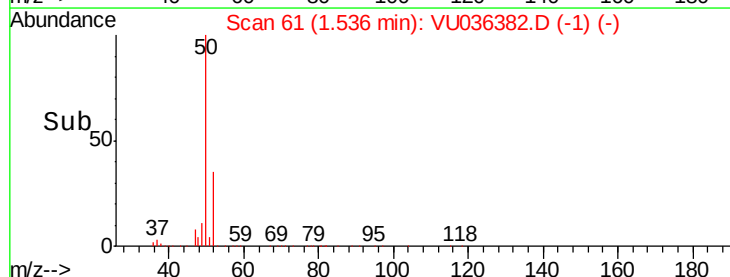
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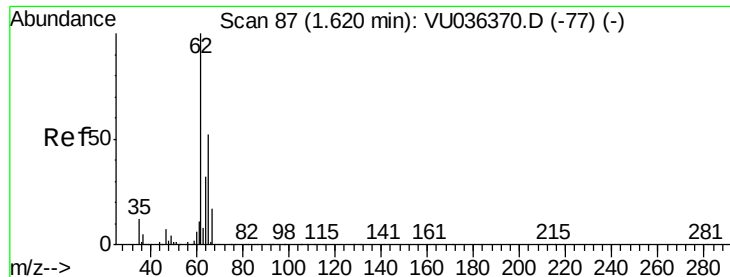
40000

20000

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Time-->





#5

Vinyl chloride

Concen: 4.675 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

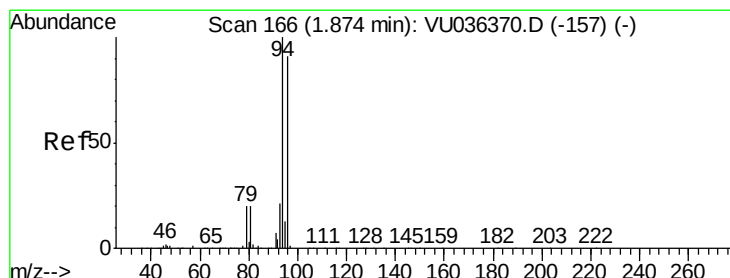
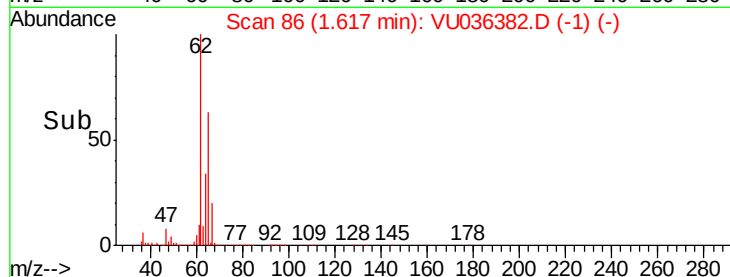
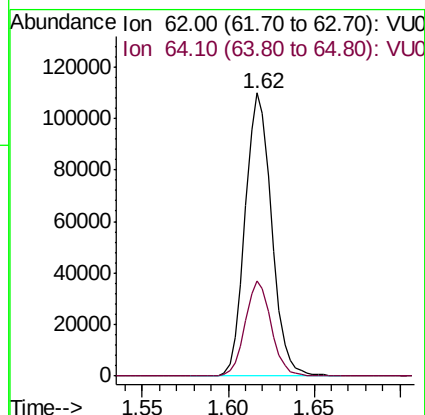
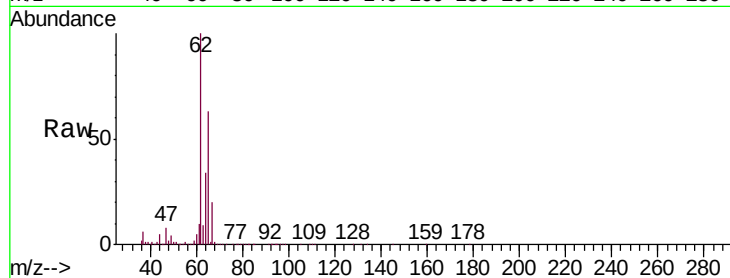
VSTD00509

Tgt Ion: 62 Resp: 117504

Ion Ratio Lower Upper

62 100

64 33.6 22.9 42.5



#6

Bromomethane

Concen: 4.610 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036382.D

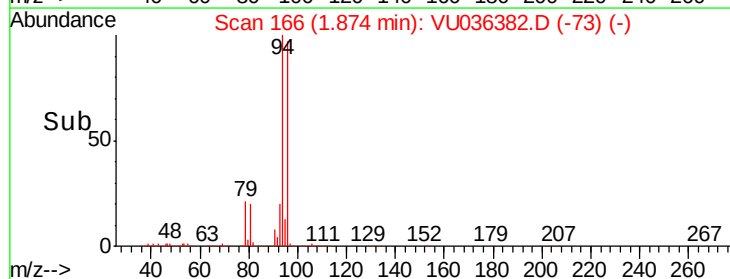
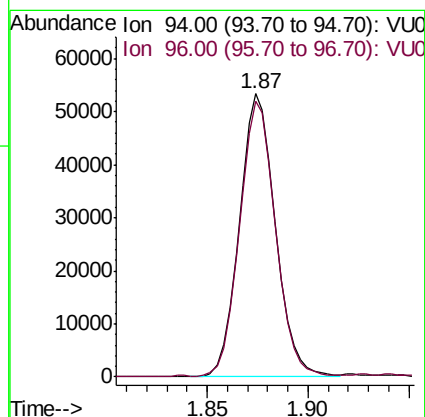
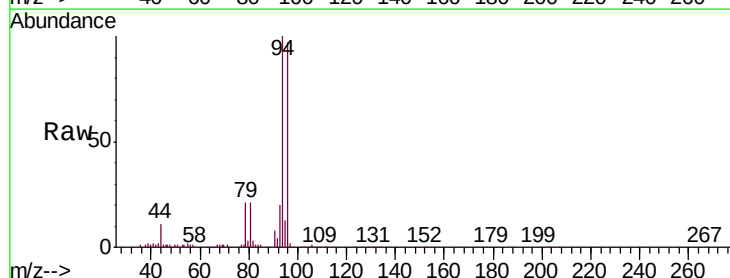
Acq: 31 Dec 2019 10:36

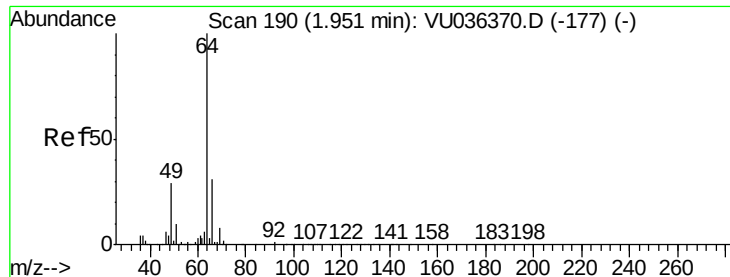
Tgt Ion: 94 Resp: 66769

Ion Ratio Lower Upper

94 100

96 97.3 62.9 116.7





#8

Chloroethane

Concen: 4.421 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

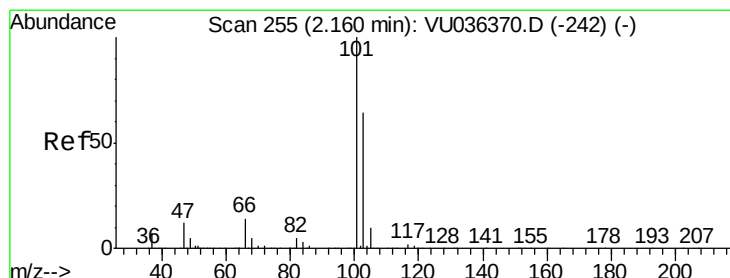
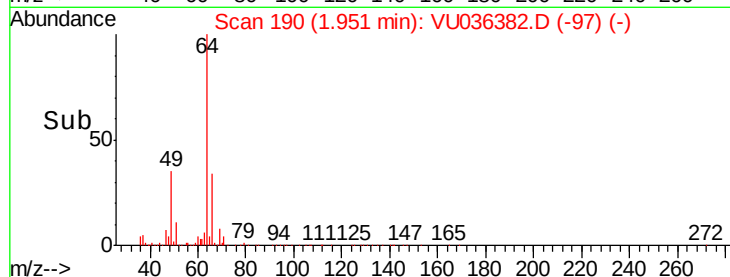
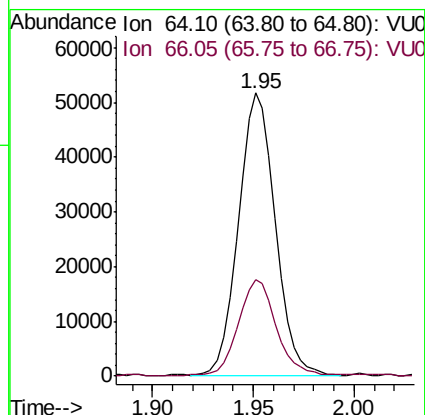
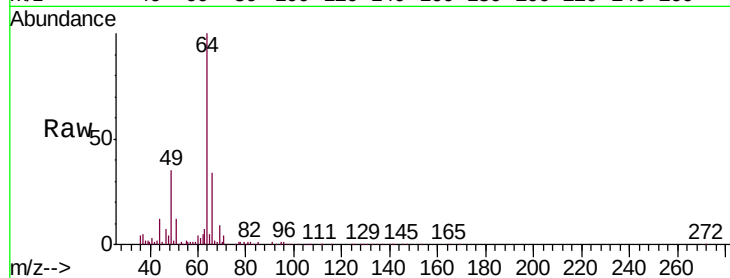
VSTD00509

Tgt Ion: 64 Resp: 65749

Ion Ratio Lower Upper

64 100

66 33.9 23.0 42.6



#9

Trichlorofluoromethane

Concen: 4.637 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU036382.D

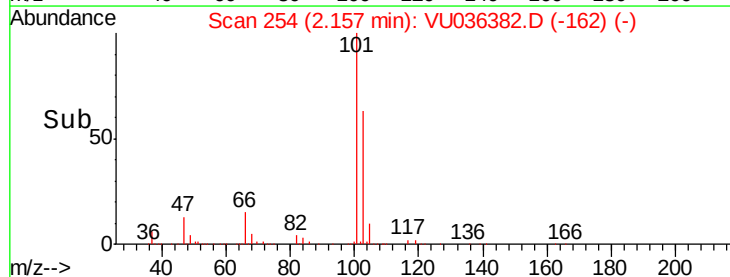
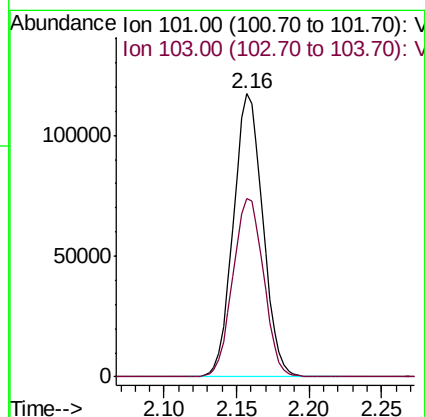
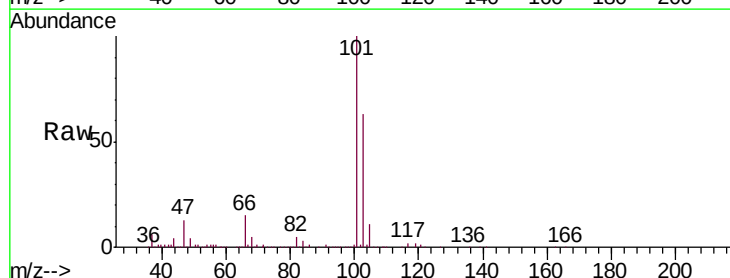
Acq: 31 Dec 2019 10:36

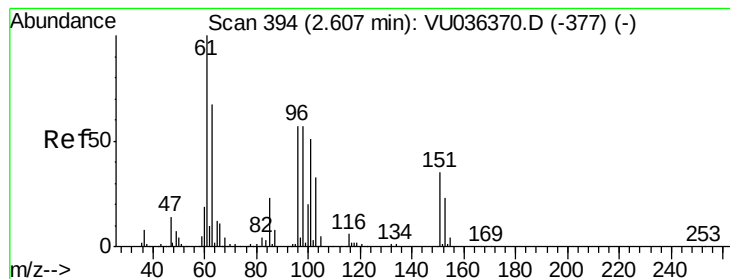
Tgt Ion: 101 Resp: 165315

Ion Ratio Lower Upper

101 100

103 65.9 52.8 79.2





#10

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

Concen: 4.876 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

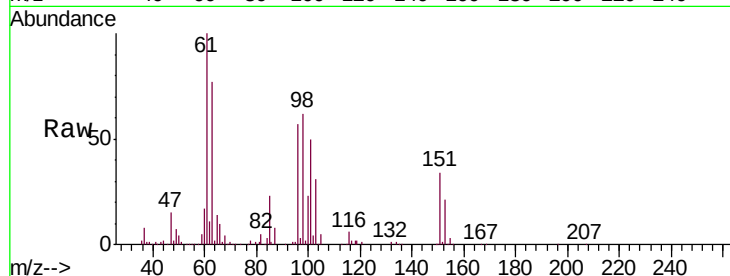
Tgt Ion: 101 Resp: 90409

Ion Ratio Lower Upper

101 100

85 48.6 39.1 58.7

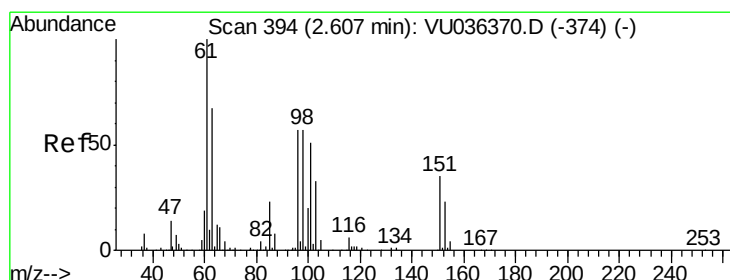
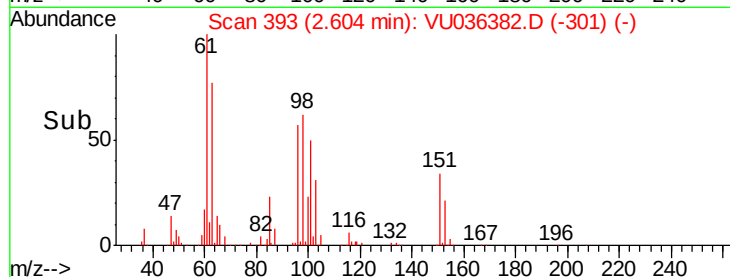
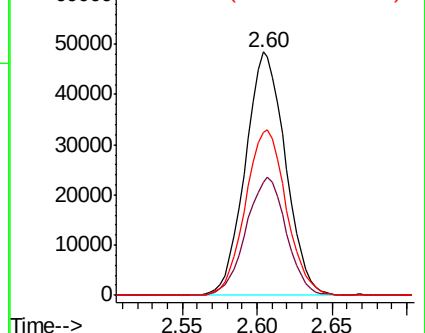
151 69.3 54.9 82.3



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: 4.900 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

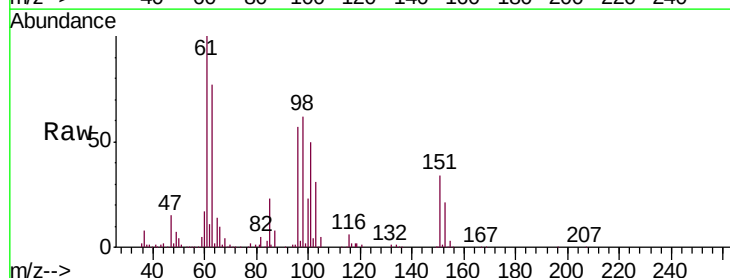
Tgt Ion: 96 Resp: 89593

Ion Ratio Lower Upper

96 100

61 175.5 123.8 230.0

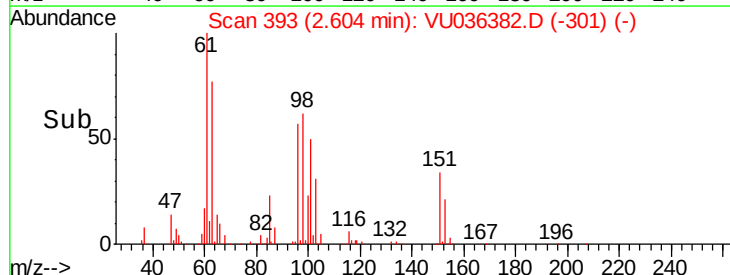
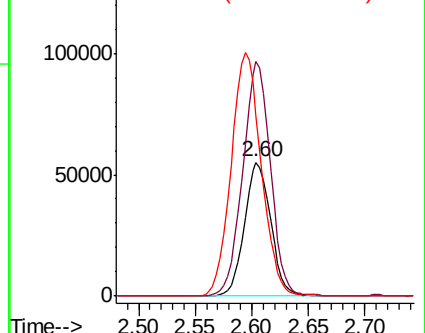
63 135.4 89.0 165.4

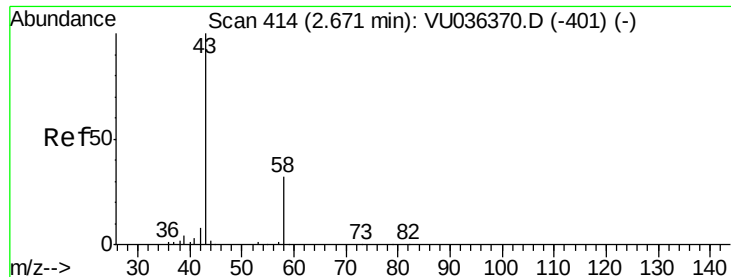


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 41.790 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

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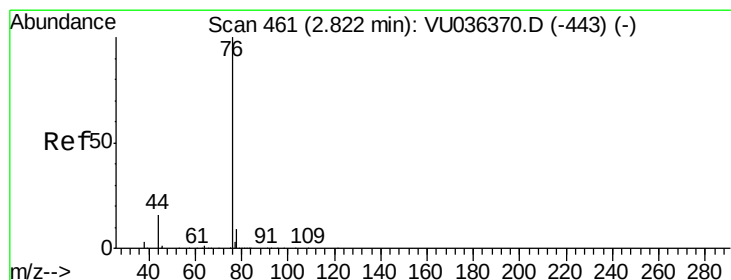
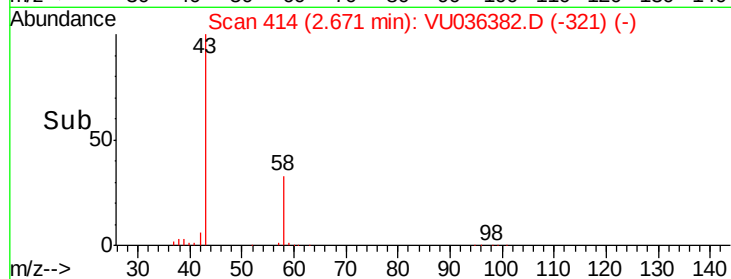
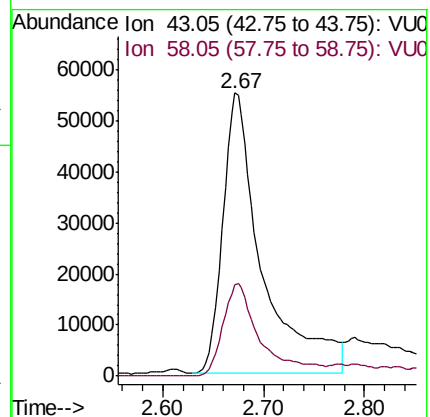
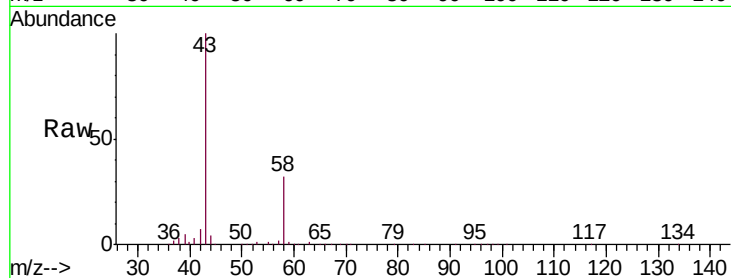
VSTD00509

Tgt Ion: 43 Resp: 149864

Ion Ratio Lower Upper

43 100

58 32.0 0.0 57.0



#14

Carbon disulfide

Concen: 4.726 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036382.D

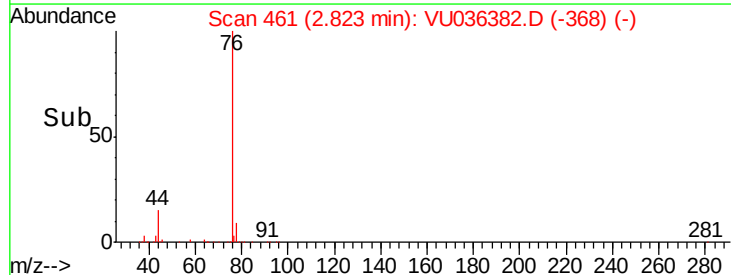
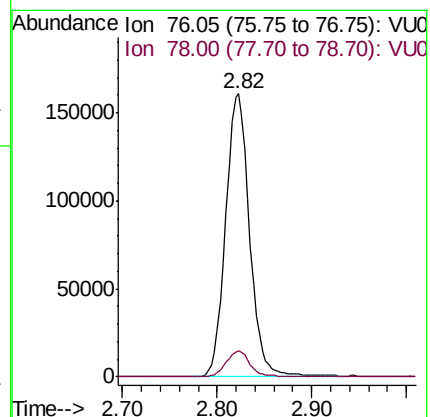
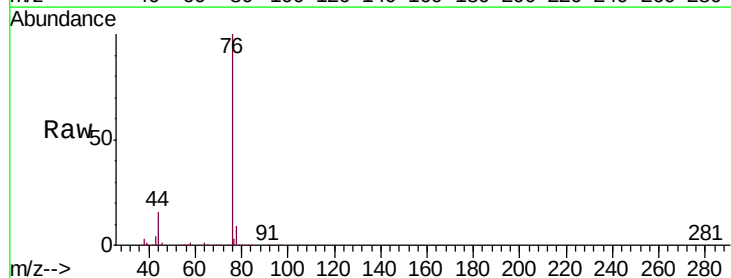
Acq: 31 Dec 2019 10:36

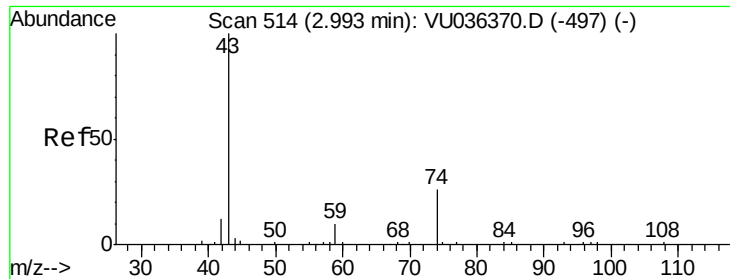
Tgt Ion: 76 Resp: 283381

Ion Ratio Lower Upper

76 100

78 9.2 7.6 11.4

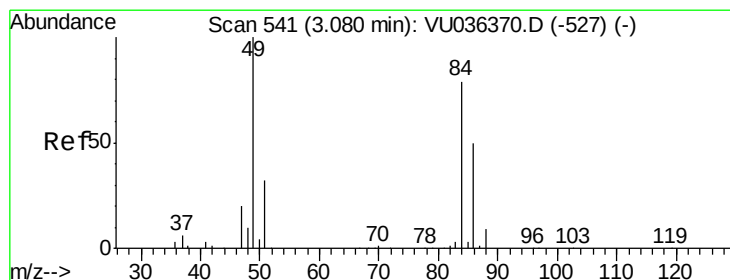
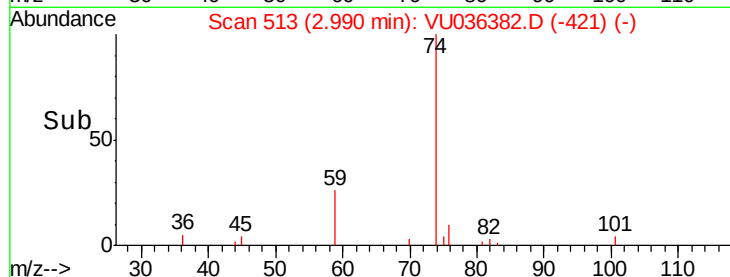
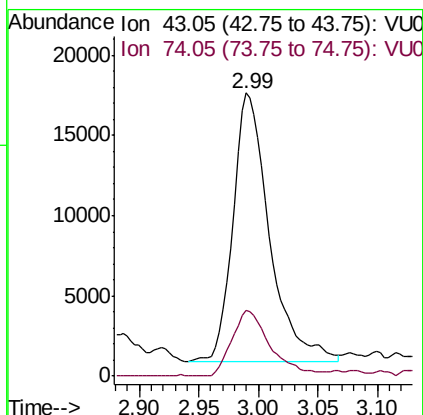
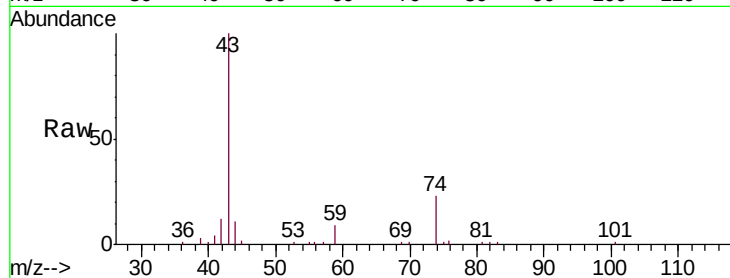




#15
Methyl Acetate
Concen: 4.476 ug/L
RT: 2.99 min Scan# 513
Delta R.T. -0.00 min
Lab File: VU036382.D
Acq: 31 Dec 2019 10:36

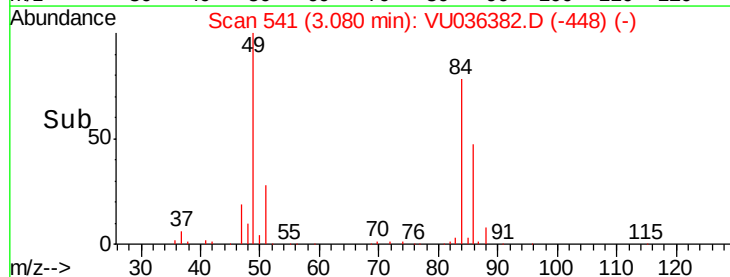
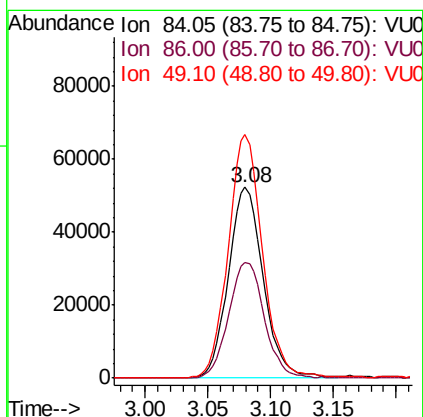
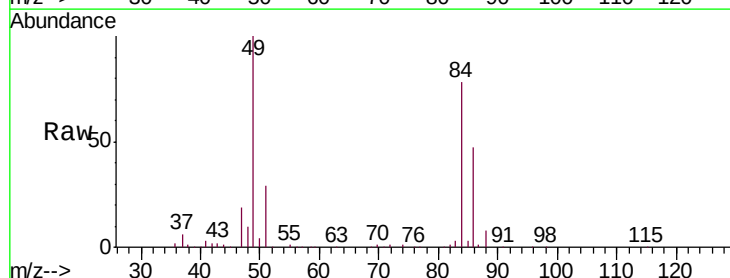
Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

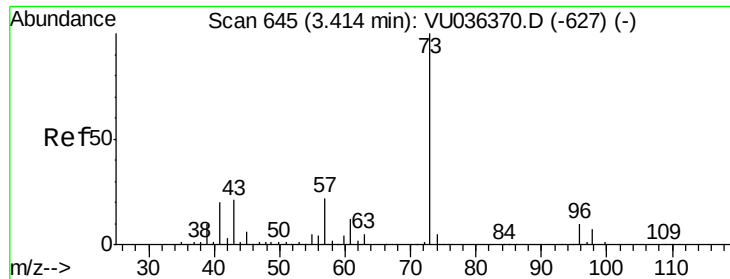
Tgt Ion: 43 Resp: 35428
Ion Ratio Lower Upper
43 100
74 26.2 20.1 30.1



#16
Methylene chloride
Concen: 4.358 ug/L
RT: 3.08 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU036382.D
Acq: 31 Dec 2019 10:36

Tgt Ion: 84 Resp: 101140
Ion Ratio Lower Upper
84 100
86 60.5 44.4 82.5
49 127.4 89.0 165.2





#17

Methyl tert-butyl Ether

Concen: 4.747 ug/L

RT: 3.41 min Scan# 644

Delta R.T. -0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

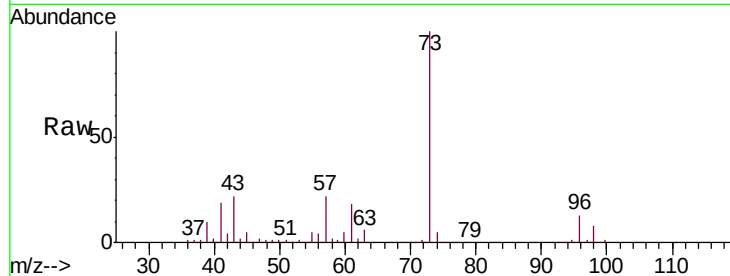
Tgt Ion: 73 Resp: 251069

Ion Ratio Lower Upper

73 100

43 21.3 16.3 24.5

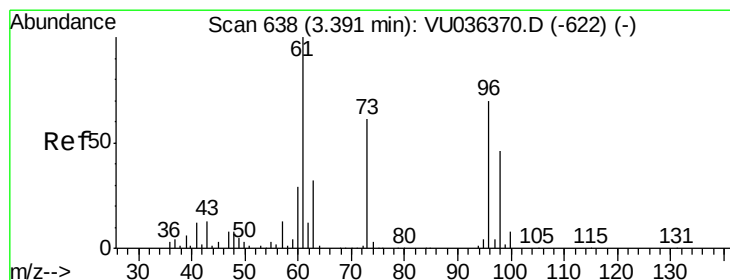
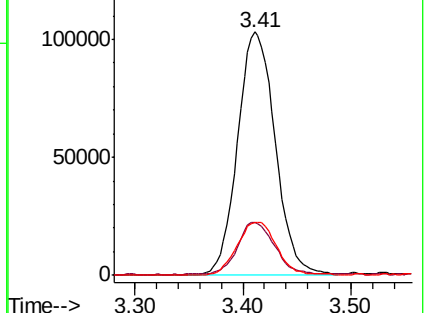
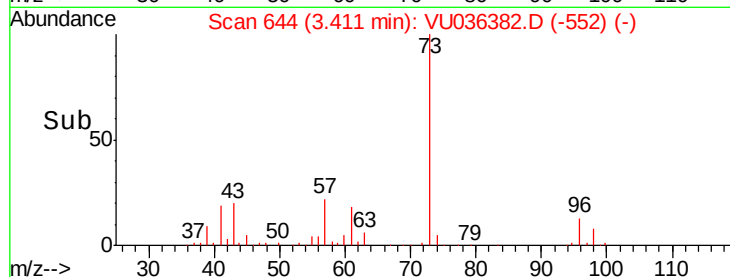
57 22.7 17.9 26.9



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: 4.829 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

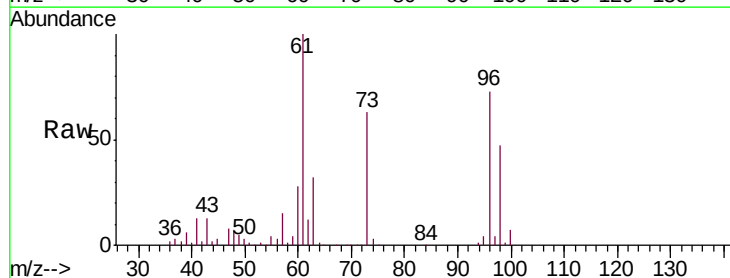
Tgt Ion: 96 Resp: 98854

Ion Ratio Lower Upper

96 100

61 137.2 94.8 176.2

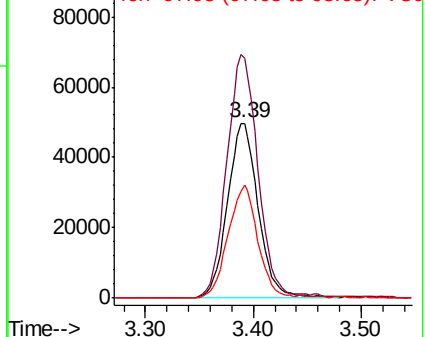
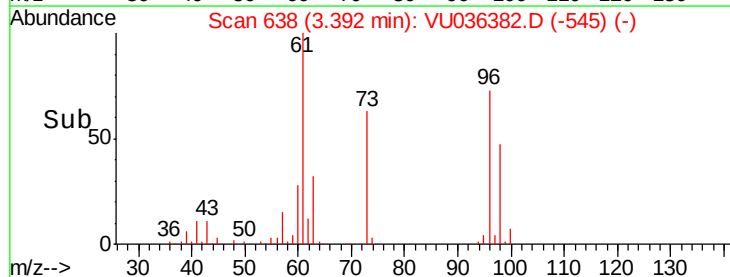
98 64.4 42.3 78.5

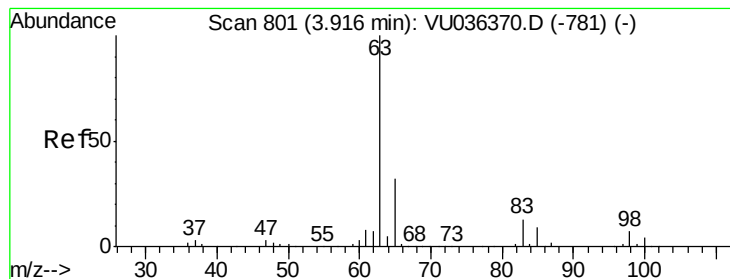


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 4.899 ug/L

RT: 3.92 min Scan# 801

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

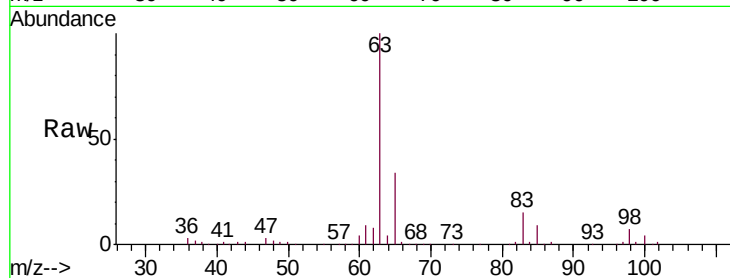
Tgt Ion: 63 Resp: 181605

Ion Ratio Lower Upper

63 100

65 33.9 21.9 40.7

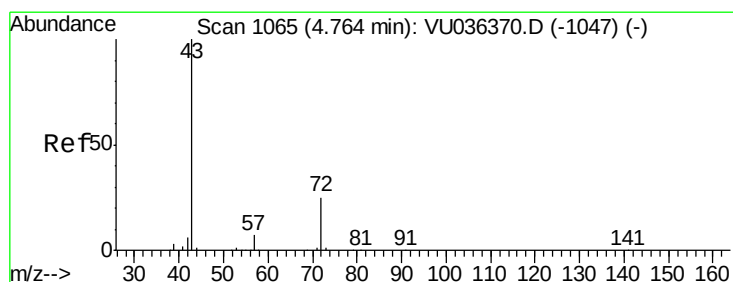
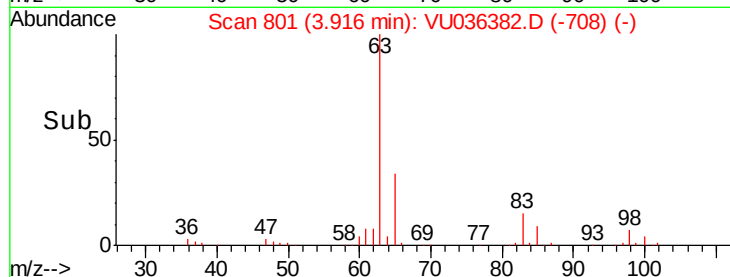
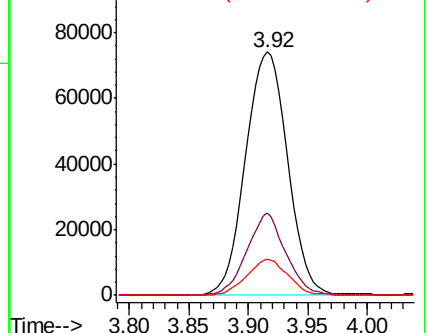
83 14.8 10.6 19.8



Abundance Ion 63.10 (62.80 to 63.80): VU036382.D (-708) (-)

Ion 65.10 (64.80 to 65.80): VU036382.D (-708) (-)

Ion 83.05 (82.75 to 83.75): VU036382.D (-708) (-)



#21

2-Butanone

Concen: 41.694 ug/L

RT: 4.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VU036382.D

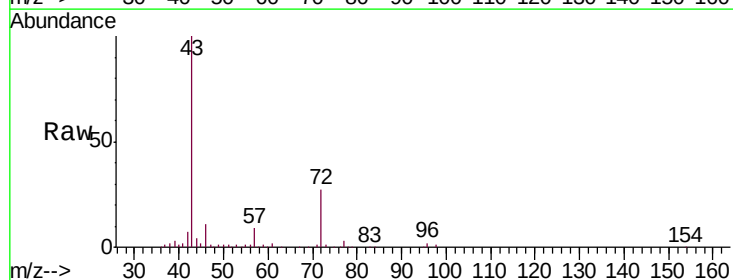
Acq: 31 Dec 2019 10:36

Tgt Ion: 43 Resp: 241942

Ion Ratio Lower Upper

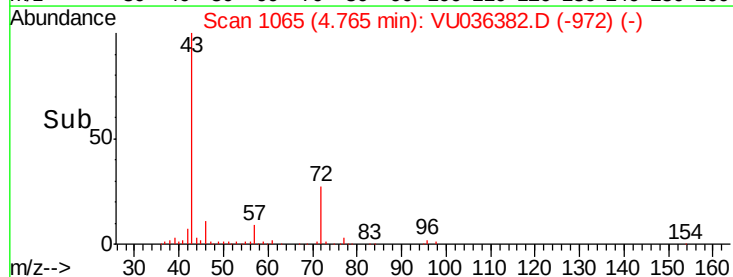
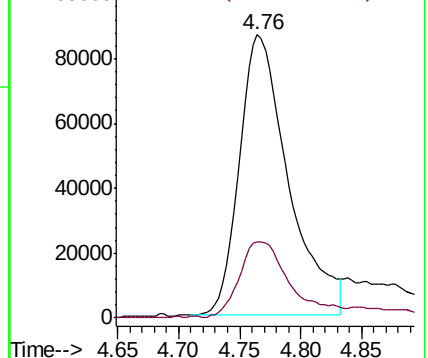
43 100

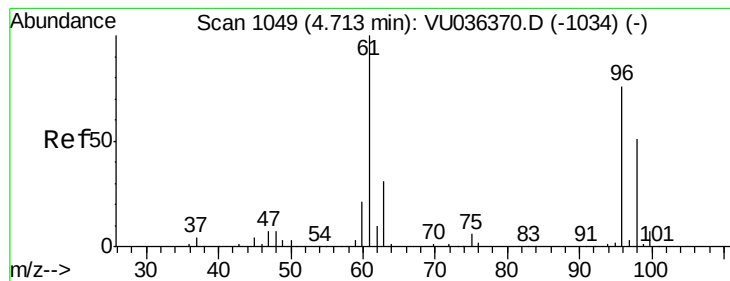
72 28.5 12.5 37.5



Abundance Ion 43.05 (42.75 to 43.75): VU036382.D (-972) (-)

Ion 72.10 (71.80 to 72.80): VU036382.D (-972) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.775 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

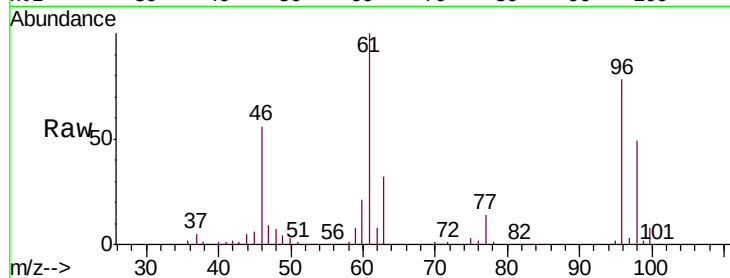
Tgt Ion: 96 Resp: 109725

Ion Ratio Lower Upper

96 100

61 127.5 90.5 168.1

68 0.0 0.3 0.5#

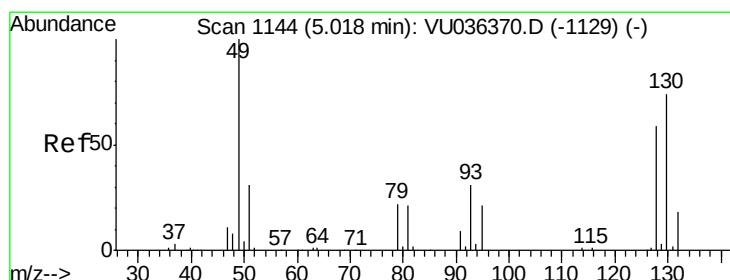
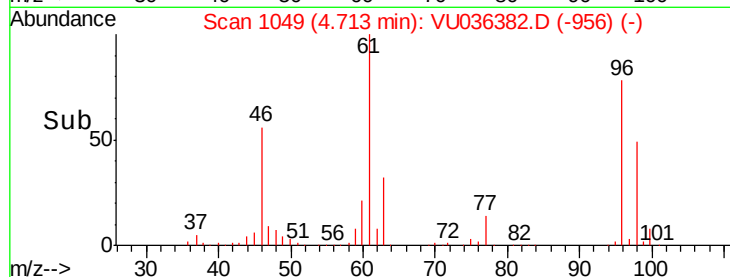
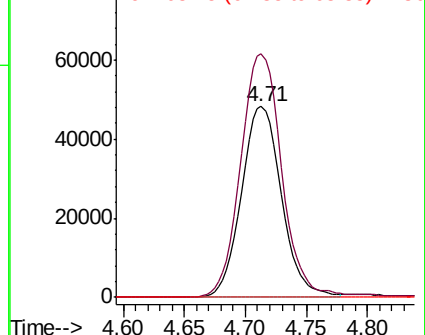


Abundance

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: 4.793 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Tgt Ion: 128 Resp: 45877

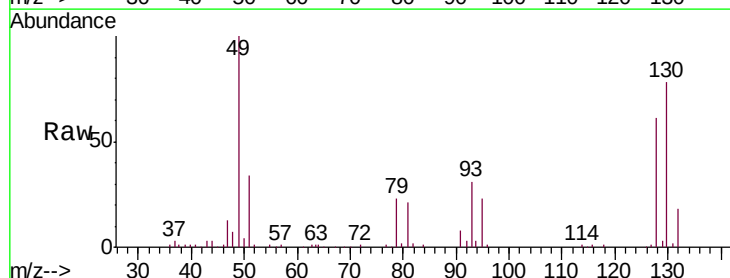
Ion Ratio Lower Upper

128 100

49 163.0 124.2 230.6

130 126.4 99.3 184.3

51 55.5 42.7 64.1



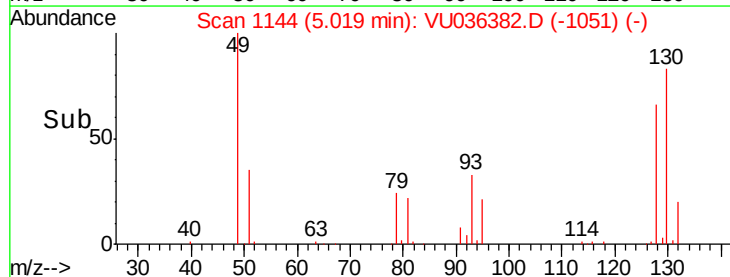
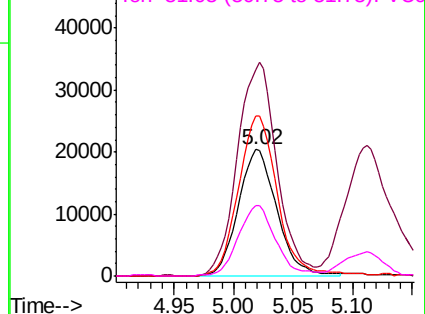
Abundance

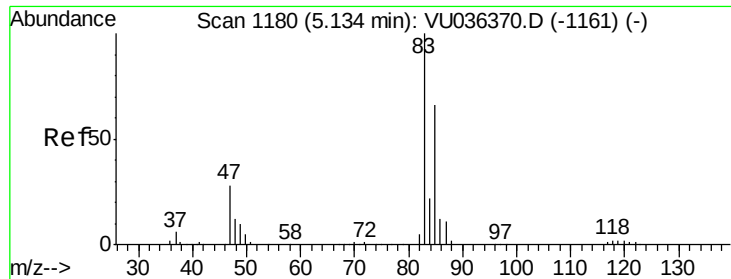
Ion 127.90 (127.60 to 128.60): V

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

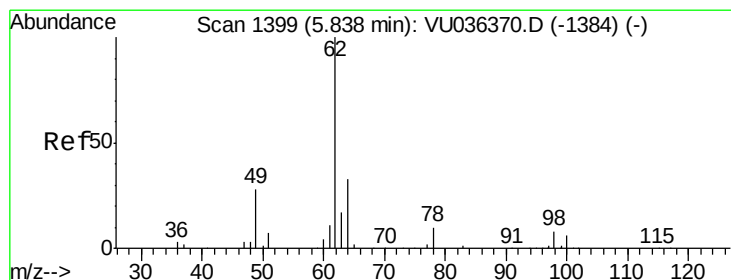
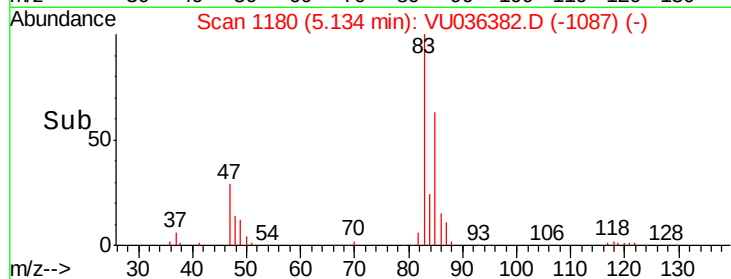
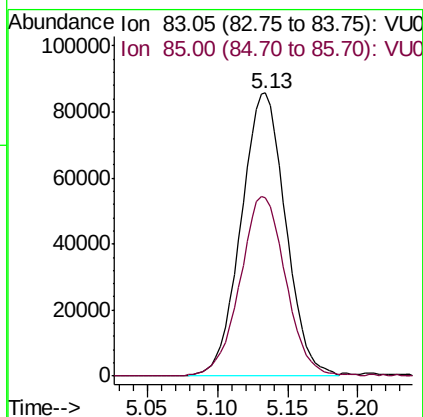
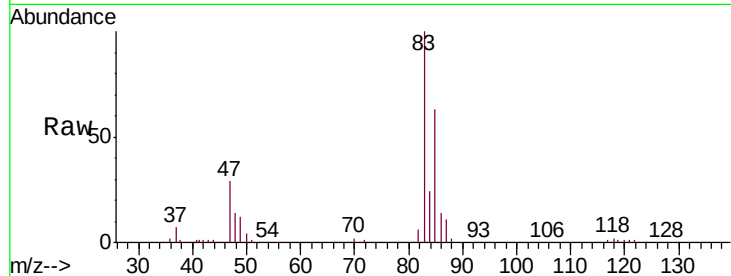




#25
Chloroform
Concen: 4.808 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036382.D
Acq: 31 Dec 2019 10:36

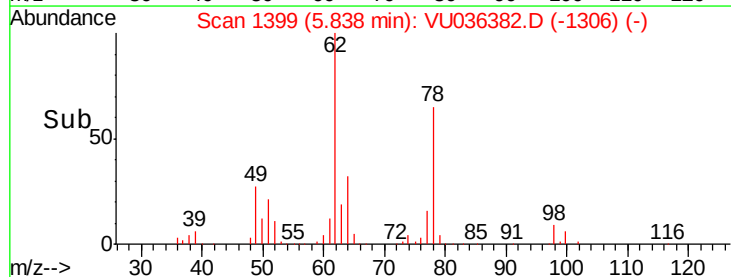
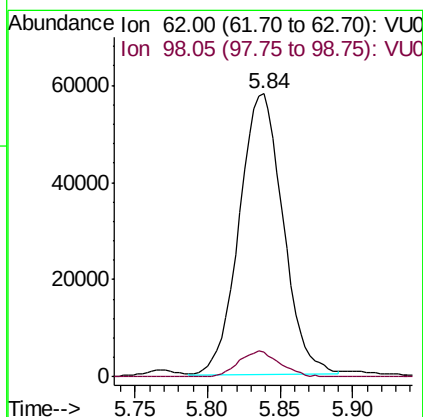
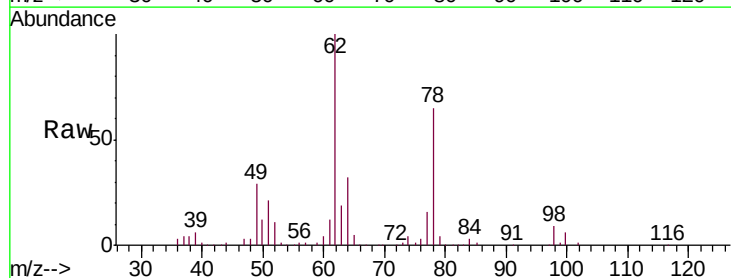
Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

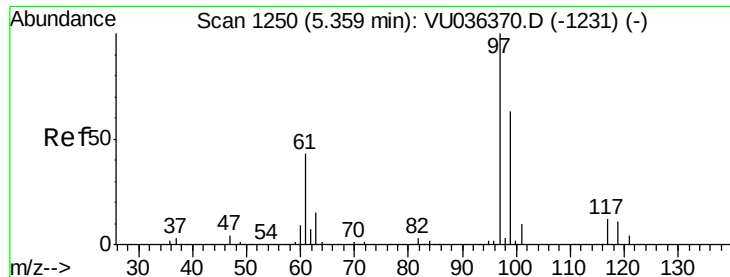
Tgt Ion: 83 Resp: 189243
Ion Ratio Lower Upper
83 100
85 63.0 44.1 81.9



#27
1,2-Dichloroethane
Concen: 4.687 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036382.D
Acq: 31 Dec 2019 10:36

Tgt Ion: 62 Resp: 121480
Ion Ratio Lower Upper
62 100
98 8.7 6.6 10.0

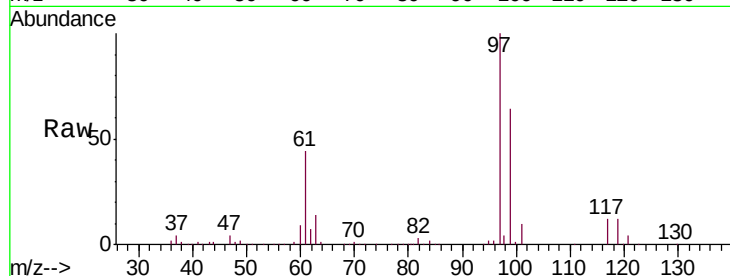




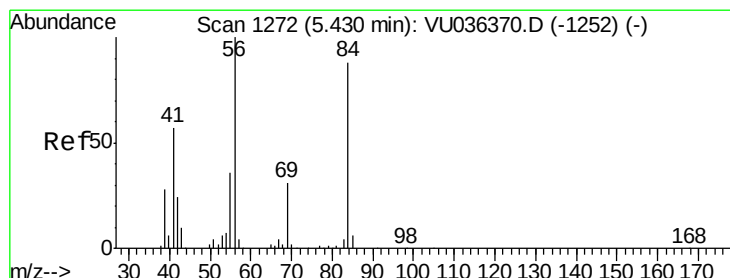
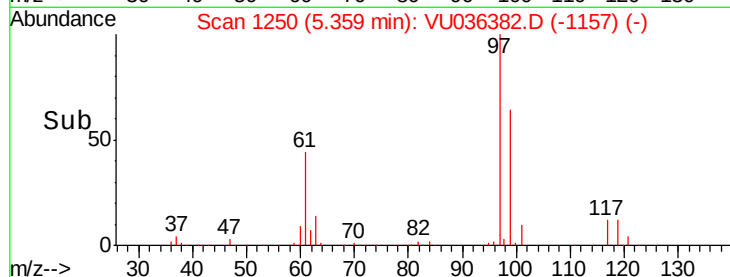
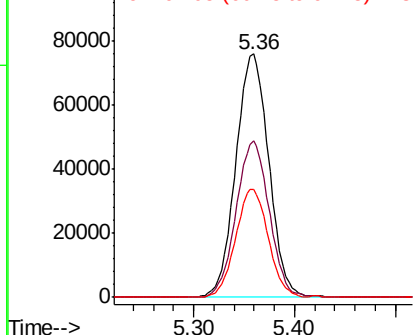
#29
 1,1,1-Trichloroethane
 Concen: 4.824 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

Tgt Ion: 97 Resp: 172417
 Ion Ratio Lower Upper
 97 100
 99 64.6 50.1 75.1
 61 43.9 35.0 52.4

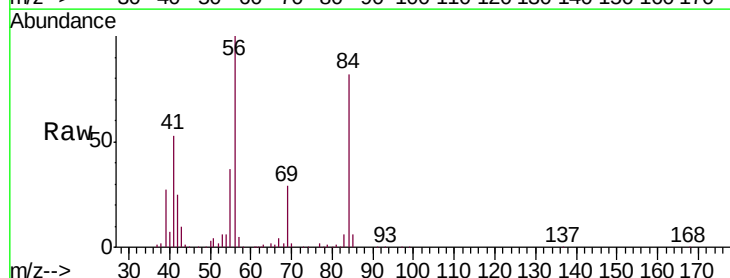


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

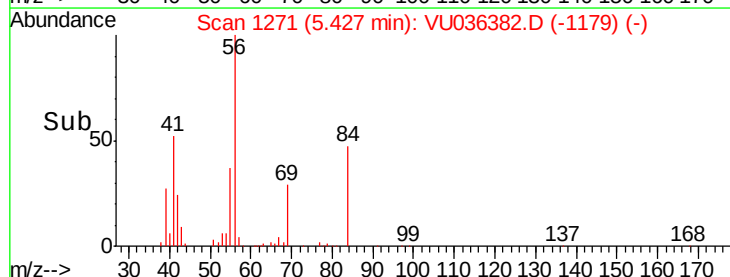
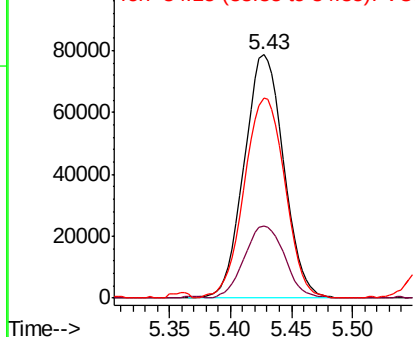


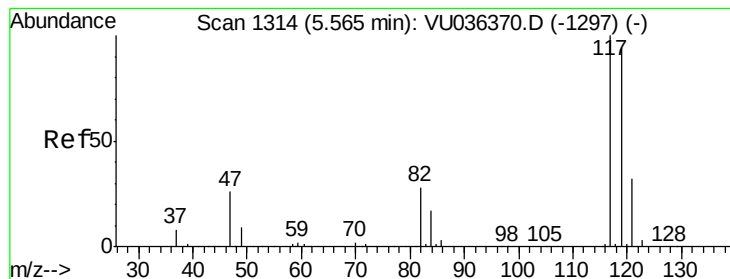
#30
 Cyclohexane
 Concen: 4.926 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Tgt Ion: 56 Resp: 175128
 Ion Ratio Lower Upper
 56 100
 69 30.5 23.6 35.4
 84 85.5 66.0 99.0



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: 4.889 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

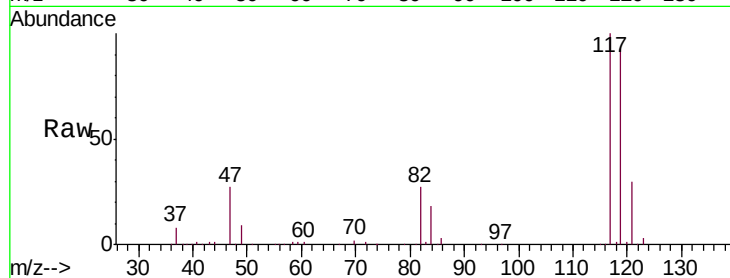
VSTD00509

Tgt Ion:117 Resp: 148574

Ion Ratio Lower Upper

117 100

119 94.7 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.57

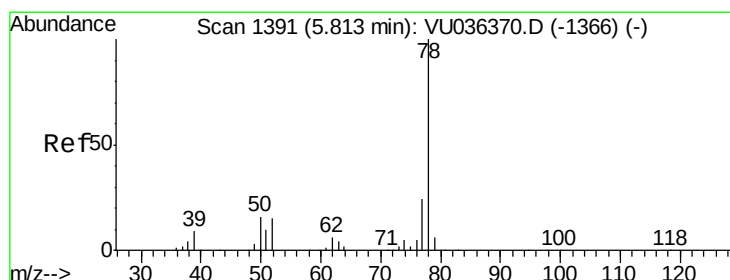
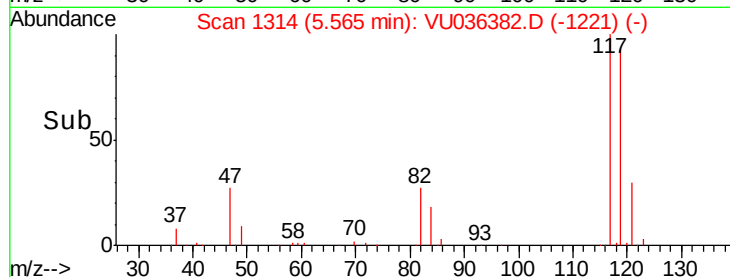
60000

40000

20000

0

Time--> 5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 4.805 ug/L

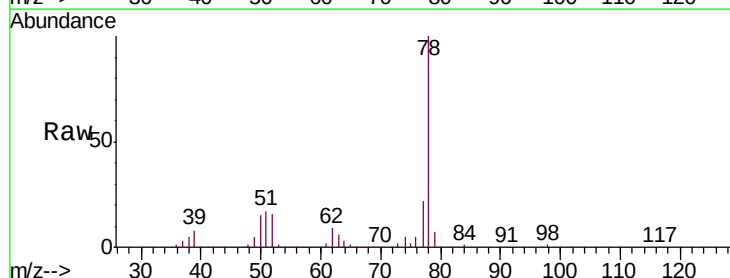
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Tgt Ion: 78 Resp: 409147



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.82

200000

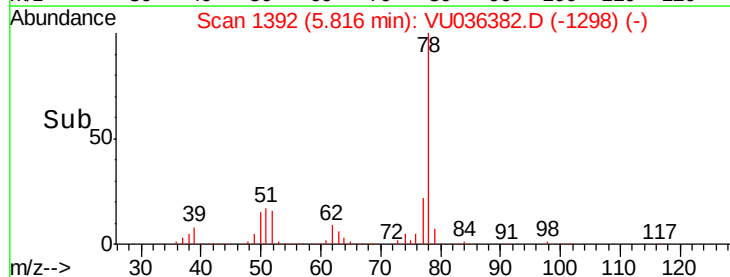
150000

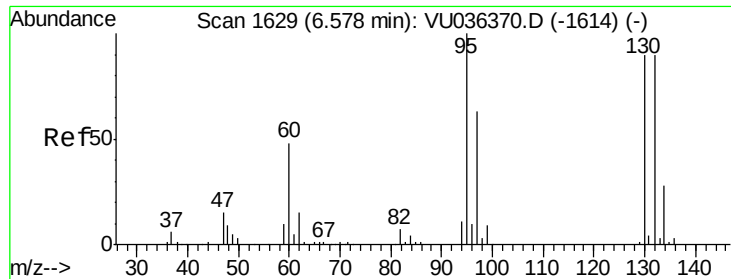
100000

50000

0

Time--> 5.70 5.80 5.90





#34

Trichloroethene

Concen: 4.874 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

Tgt Ion: 95 Resp: 111776

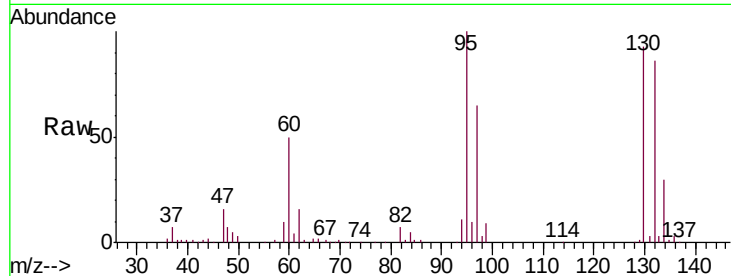
Ion Ratio Lower Upper

95 100

97 65.4 42.9 79.7

132 86.0 62.4 116.0

130 93.4 62.9 116.9

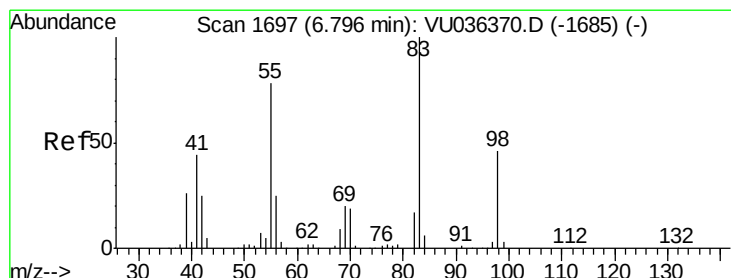
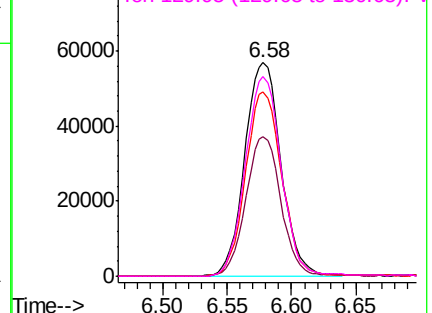
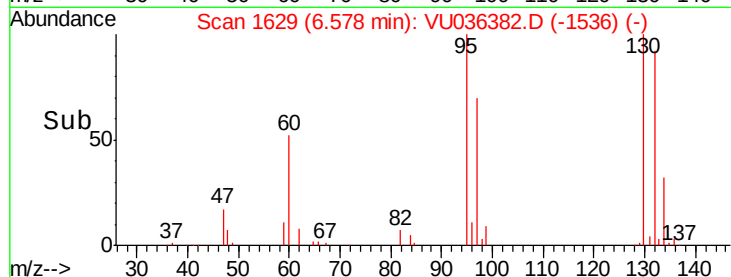


Abundance Ion 95.00 (94.70 to 95.70): VU036382.D (-1536) (-)

Ion 96.95 (96.65 to 97.65): VU036382.D (-1536) (-)

Ion 131.95 (131.65 to 132.65): VU036382.D (-1536) (-)

Ion 129.95 (129.65 to 130.65): VU036382.D (-1536) (-)



#35

Methylcyclohexane

Concen: 5.125 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

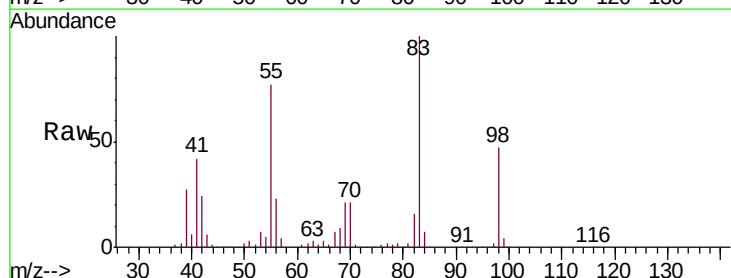
Tgt Ion: 83 Resp: 186261

Ion Ratio Lower Upper

83 100

55 78.3 61.5 92.3

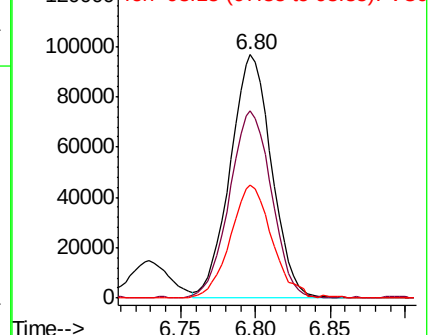
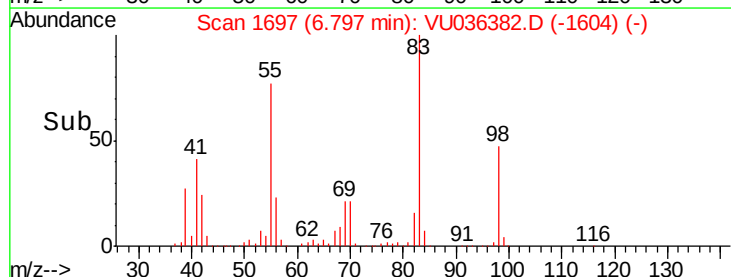
98 45.9 36.9 55.3

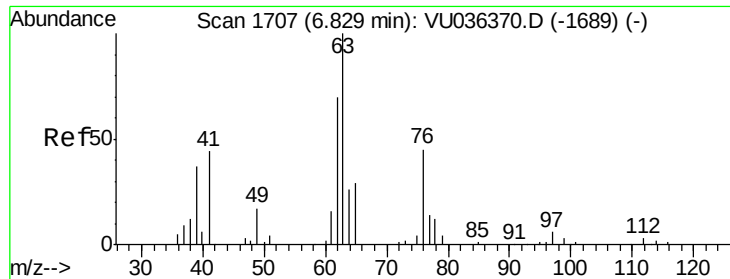


Abundance Ion 83.15 (82.85 to 83.85): VU036382.D (-1604) (-)

Ion 55.10 (54.80 to 55.80): VU036382.D (-1604) (-)

Ion 98.15 (97.85 to 98.85): VU036382.D (-1604) (-)

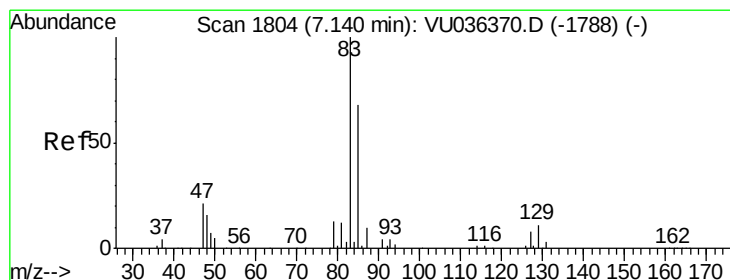
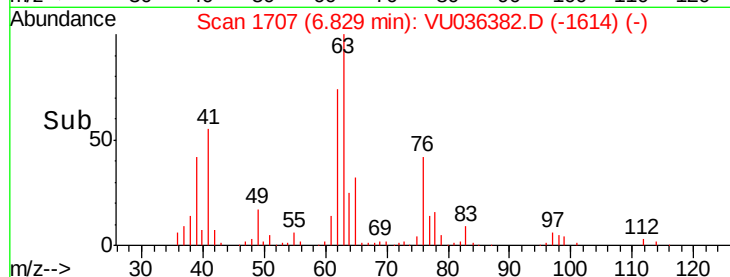
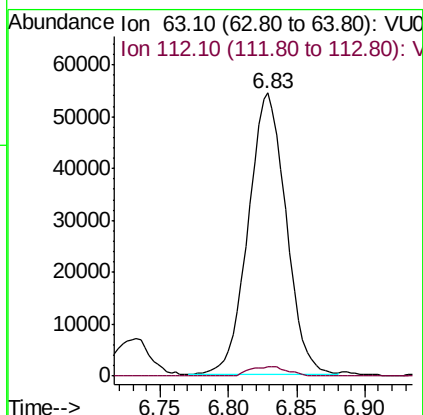
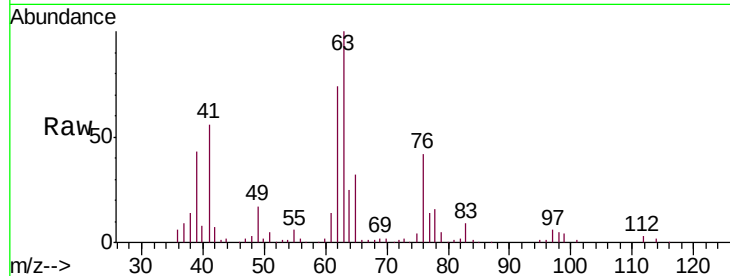




#37
 1,2-Dichloropropane
 Concen: 4.764 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

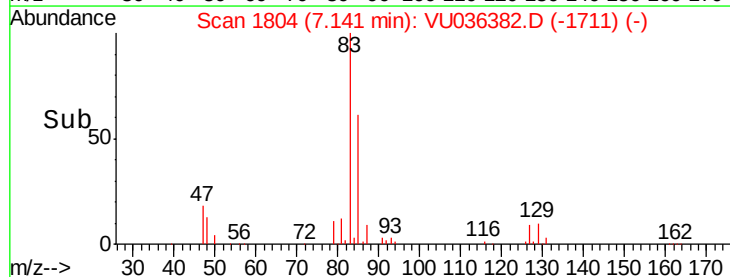
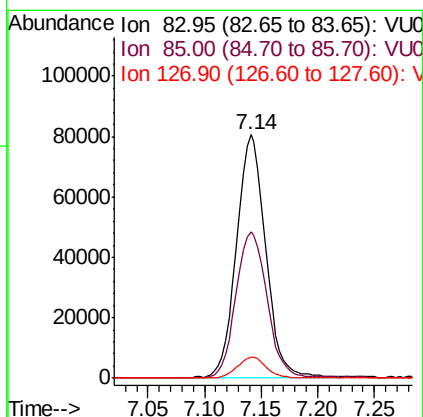
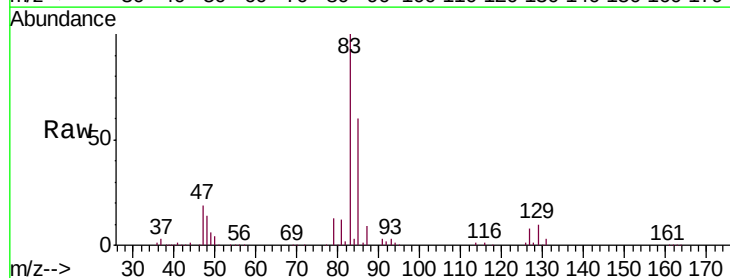
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

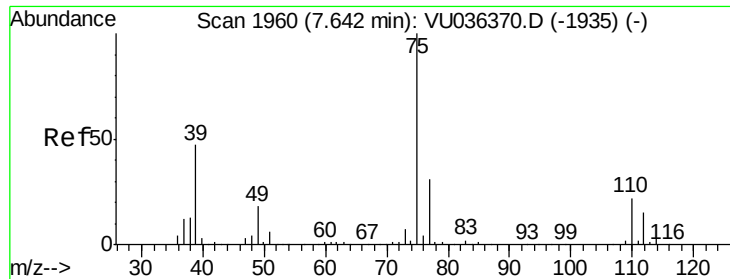
Tgt Ion: 63 Resp: 104634
 Ion Ratio Lower Upper
 63 100
 112 3.3 3.0 4.4



#38
 Bromodichloromethane
 Concen: 4.747 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Tgt Ion: 83 Resp: 143880
 Ion Ratio Lower Upper
 83 100
 85 60.2 45.0 83.6
 127 8.4 6.3 9.5

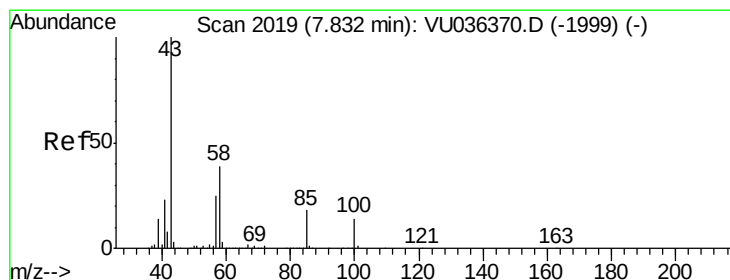
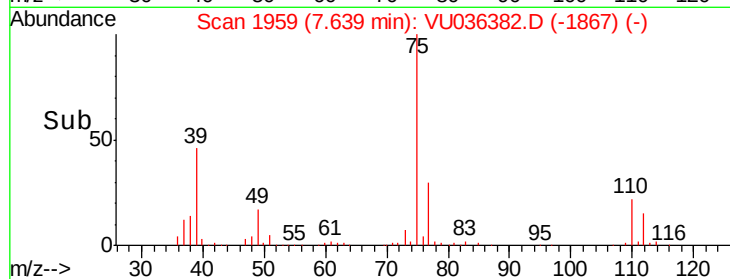
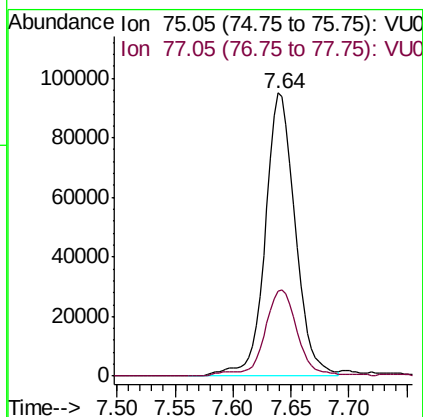
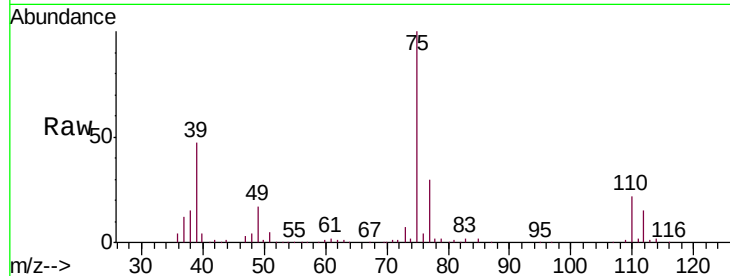




#39
 cis-1,3-Dichloropropene
 Concen: 4.738 ug/L
 RT: 7.64 min Scan# 1959
 Delta R.T. -0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

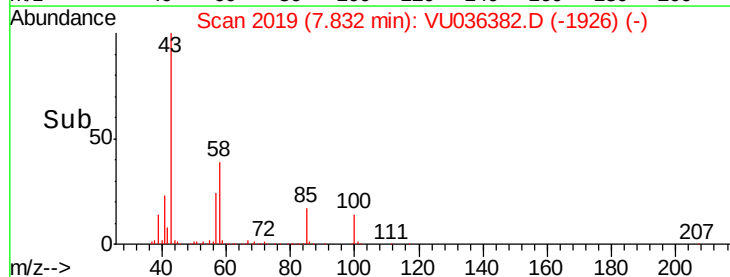
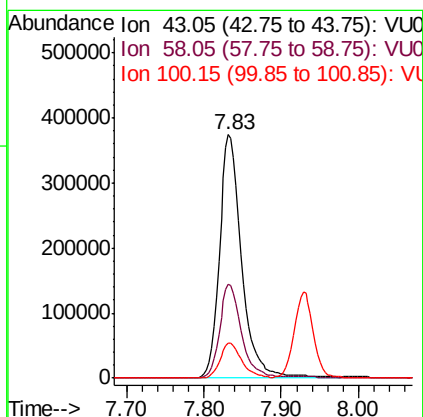
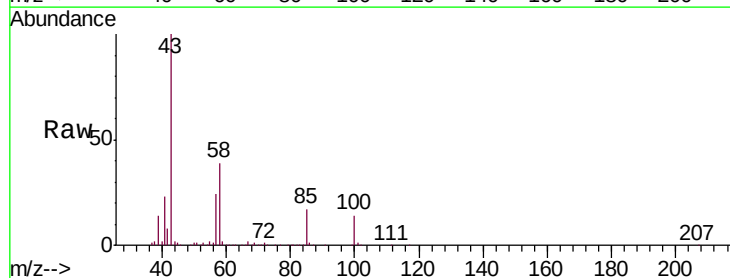
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

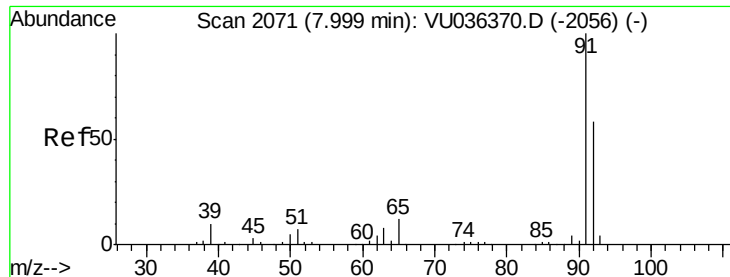
Tgt Ion: 75 Resp: 170607
 Ion Ratio Lower Upper
 75 100
 77 30.1 23.2 43.2



#40
 4-Methyl-2-pentanone
 Concen: 48.383 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Tgt Ion: 43 Resp: 748539
 Ion Ratio Lower Upper
 43 100
 58 37.9 31.8 47.6
 100 14.2 11.5 17.3





#42

Toluene

Concen: 4.783 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

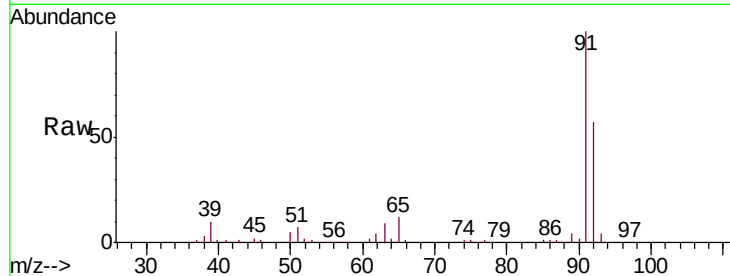
Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

Tgt Ion: 91 Resp: 450615

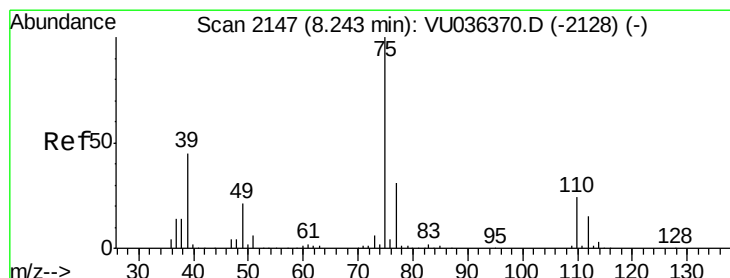
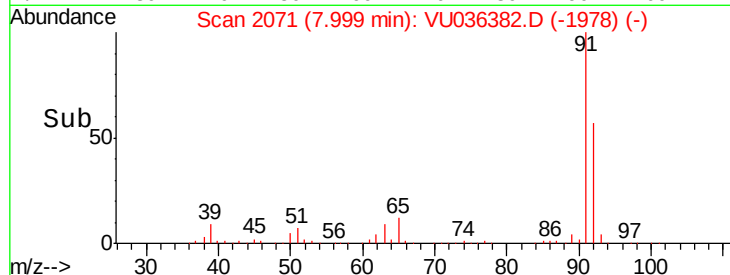
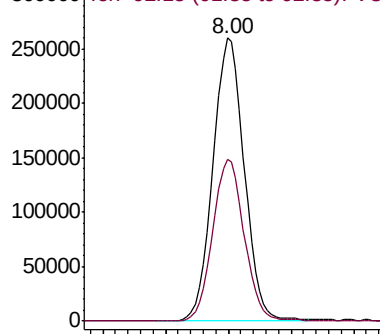
Ion Ratio Lower Upper

91 100

92 57.3 39.5 73.3



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 4.764 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036382.D

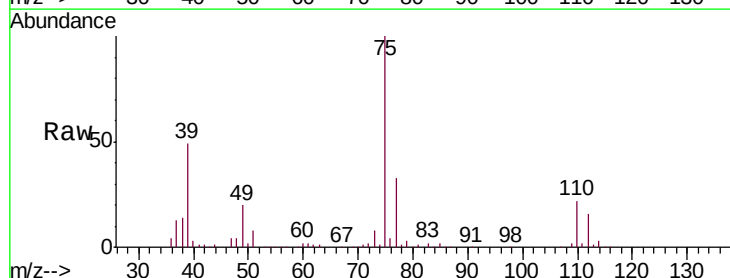
Acq: 31 Dec 2019 10:36

Tgt Ion: 75 Resp: 140943

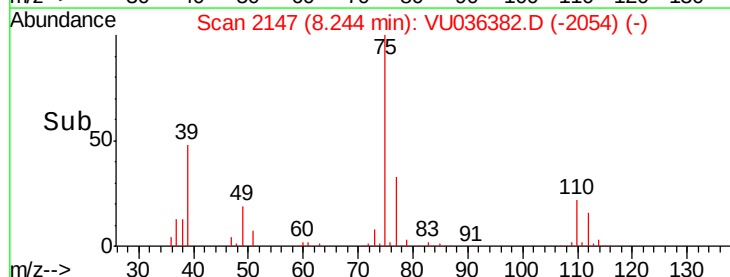
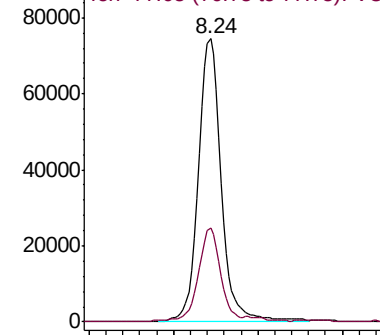
Ion Ratio Lower Upper

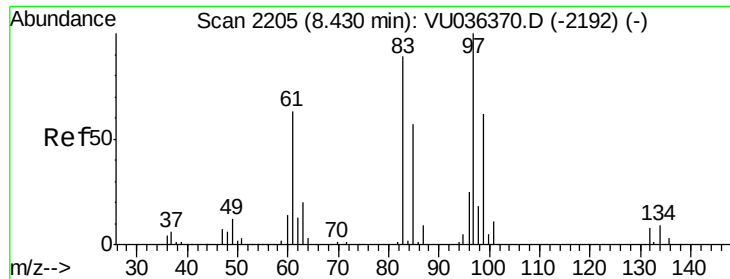
75 100

77 33.0 22.0 41.0



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0

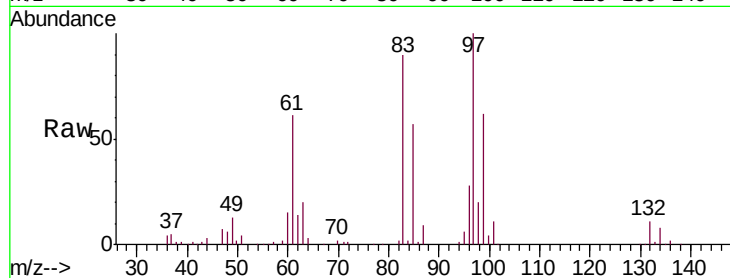




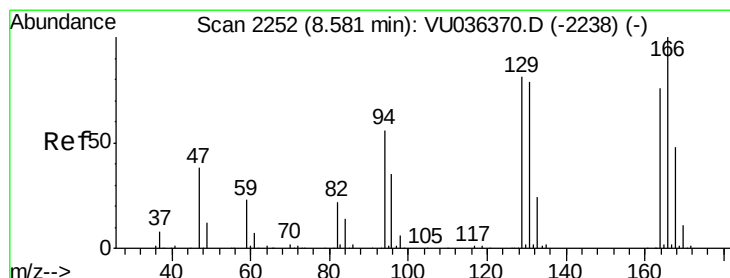
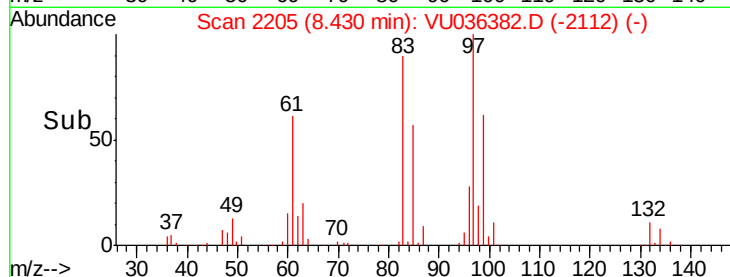
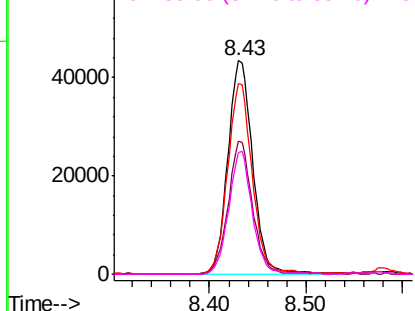
#45
 1,1,2-Trichloroethane
 Concen: 4.875 ug/L
 RT: 8.43 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

Tgt Ion:	97	Resp:	77862
Ion	Ratio	Lower	Upper
97	100		
99	62.4	43.3	80.5
83	89.6	62.2	115.6
85	57.0	41.9	77.9

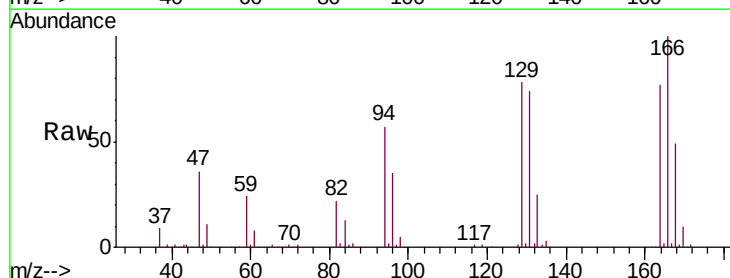


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

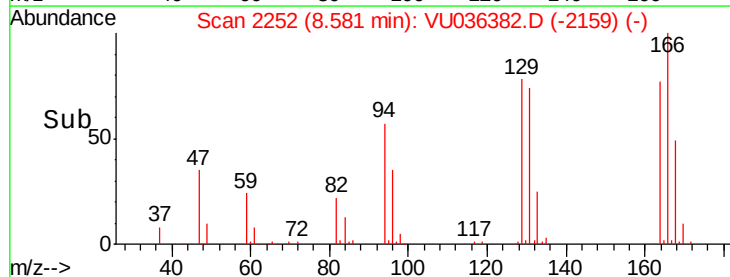
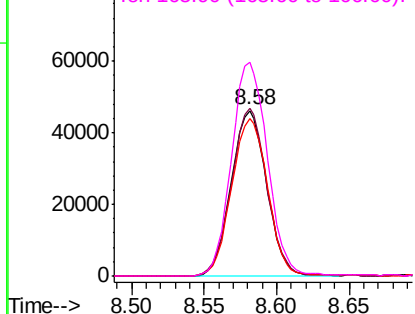


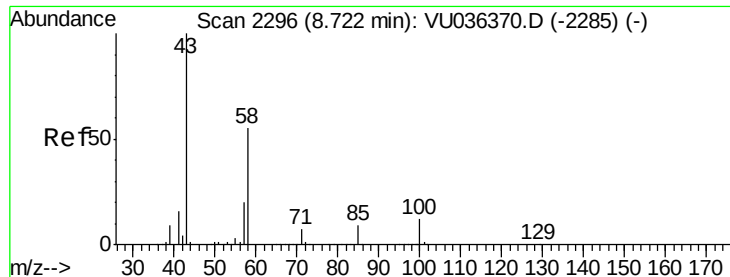
#47
 Tetrachloroethene
 Concen: 4.858 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Tgt Ion:	164	Resp:	78398
Ion	Ratio	Lower	Upper
164	100		
129	101.4	70.3	130.5
131	95.0	70.4	130.8
166	129.2	92.1	171.1



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

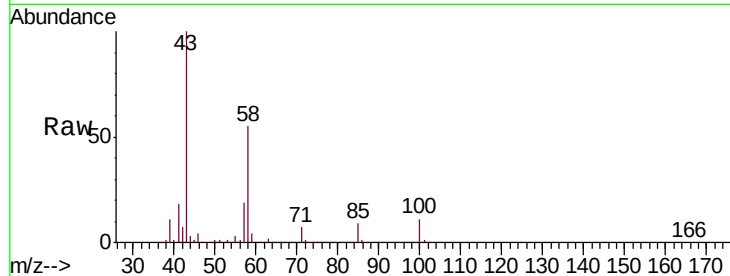




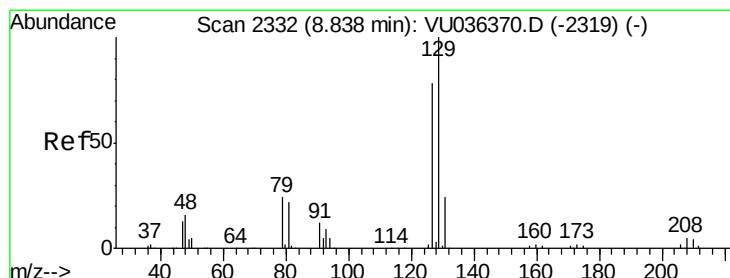
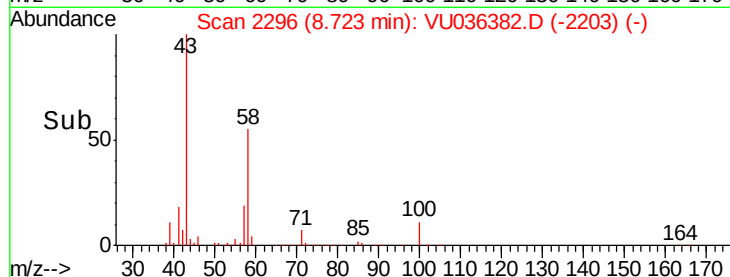
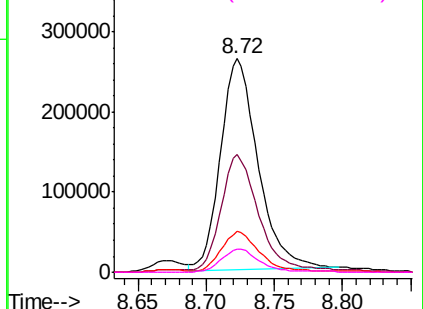
#48
2-Hexanone
Concen: 45.822 ug/L
RT: 8.72 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU036382.D
Acq: 31 Dec 2019 10:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

Tgt Ion: 43 Resp: 501788
Ion Ratio Lower Upper
43 100
58 58.2 42.7 64.1
57 19.0 14.6 22.0
100 11.5 9.0 13.6

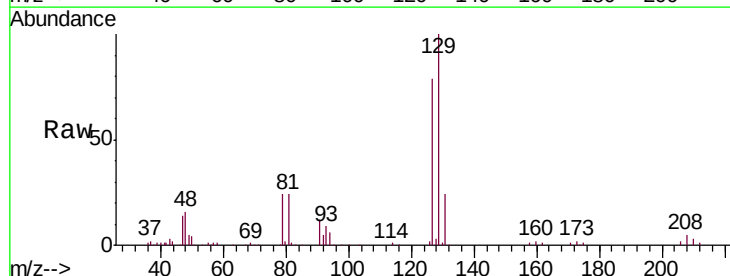


Abundance Ion 43.05 (42.75 to 43.75): VU036370.D (-2285) (-)
Ion 58.05 (57.75 to 58.75): VU036370.D (-2285) (-)
Ion 57.20 (56.90 to 57.90): VU036370.D (-2285) (-)
Ion 100.15 (99.85 to 100.85): VU036370.D (-2285) (-)

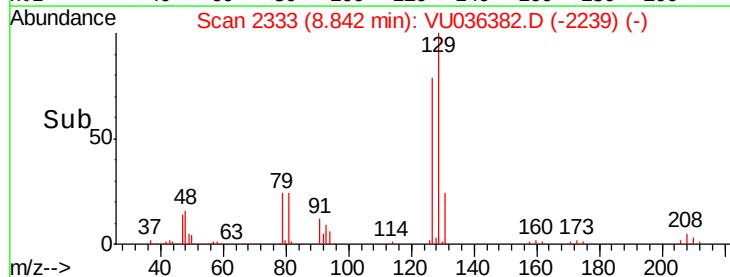
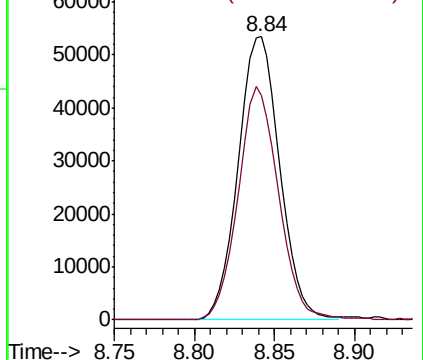


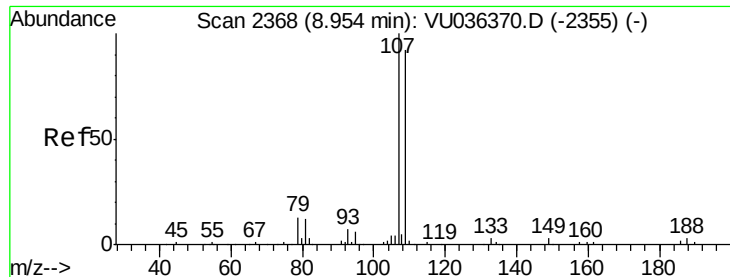
#49
Dibromochloromethane
Concen: 4.481 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036382.D
Acq: 31 Dec 2019 10:36

Tgt Ion: 129 Resp: 94715
Ion Ratio Lower Upper
129 100
127 79.5 52.7 97.9



Abundance Ion 128.95 (128.65 to 129.65): VU036370.D (-2319) (-)
Ion 126.90 (126.60 to 127.60): VU036370.D (-2319) (-)

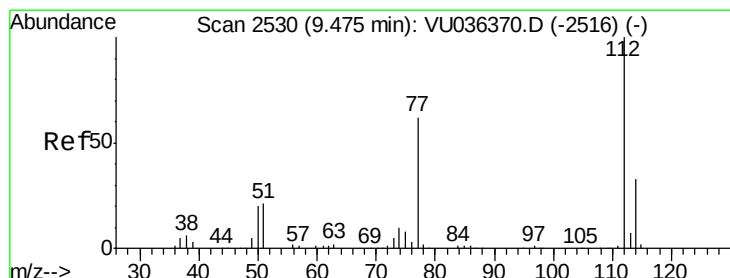
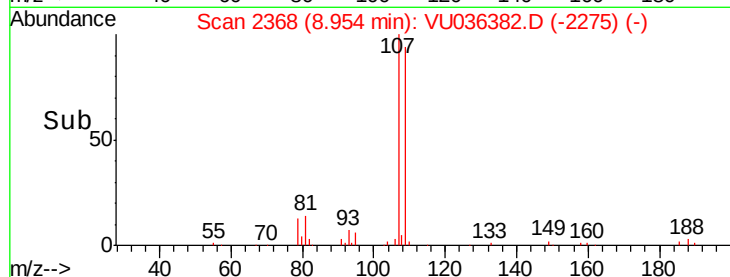
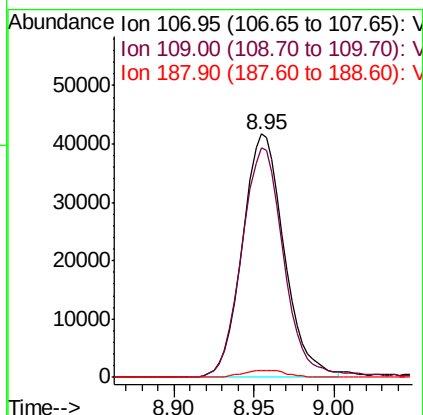
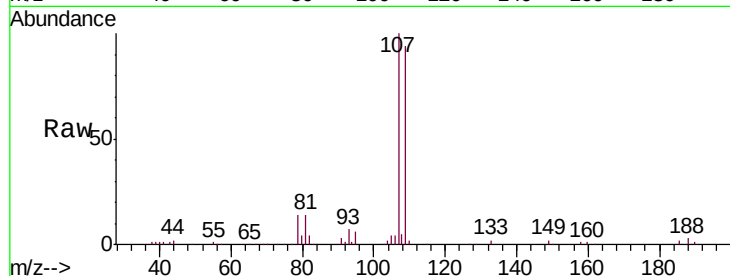




#50
 1,2-Dibromoethane
 Concen: 4.589 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

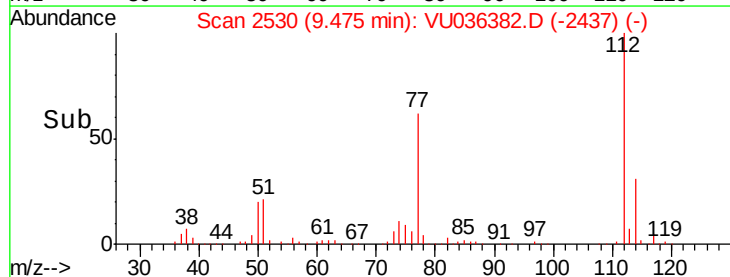
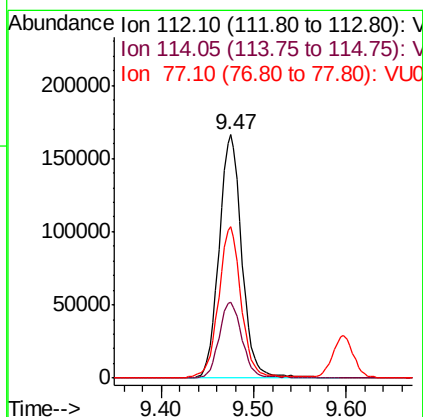
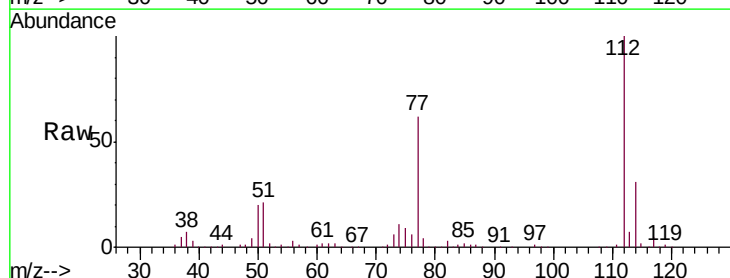
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

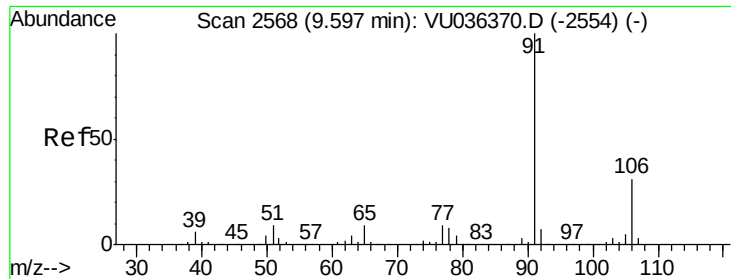
Tgt Ion:107 Resp: 74309
 Ion Ratio Lower Upper
 107 100
 109 94.2 64.3 119.5
 188 2.9 2.2 3.2



#51
 Chlorobenzene
 Concen: 4.803 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Tgt Ion:112 Resp: 282110
 Ion Ratio Lower Upper
 112 100
 114 31.2 22.7 42.3
 77 62.3 47.8 71.8





#52

Ethylbenzene

Concen: 4.910 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

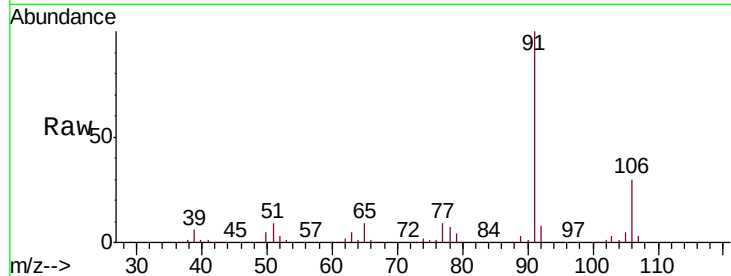
VSTD00509

Tgt Ion: 91 Resp: 512629

Ion Ratio Lower Upper

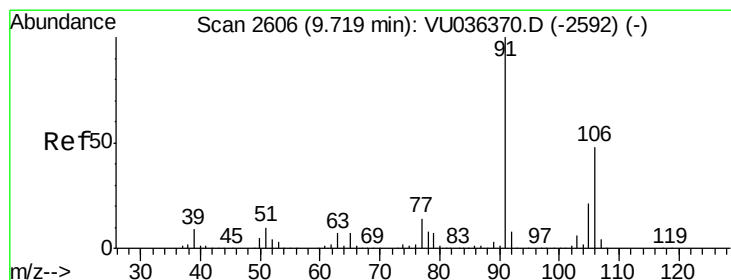
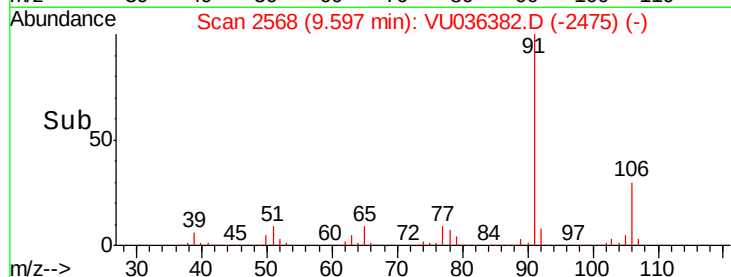
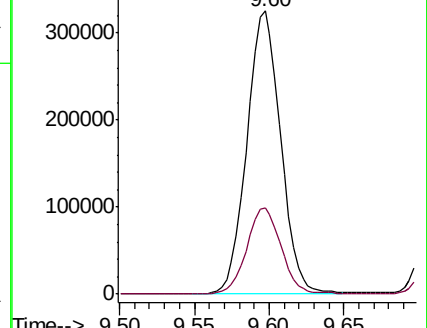
91 100

106 30.5 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU036370.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036370.D (-2554) (-)



#53

m,p-Xylene

Concen: 4.906 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036382.D

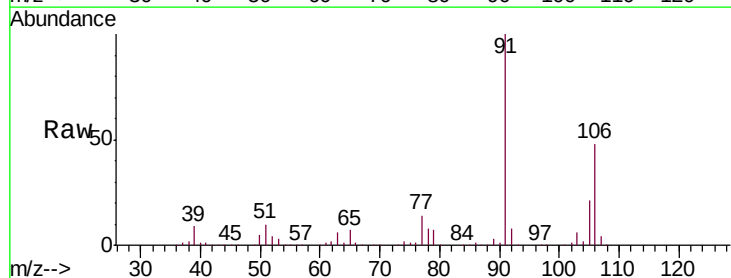
Acq: 31 Dec 2019 10:36

Tgt Ion: 106 Resp: 196837

Ion Ratio Lower Upper

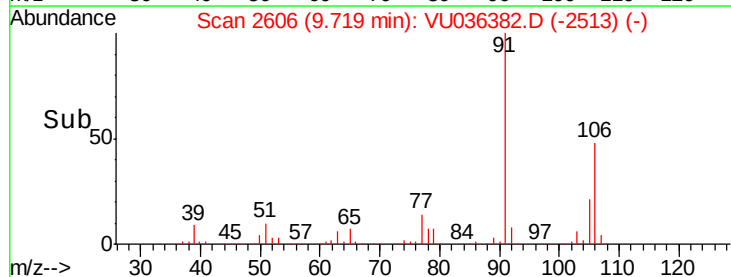
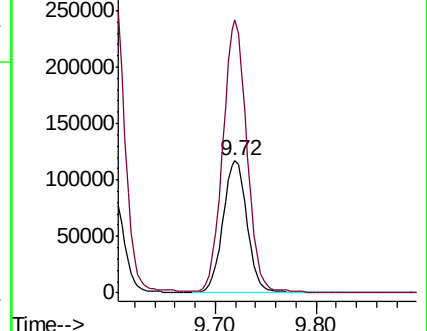
106 100

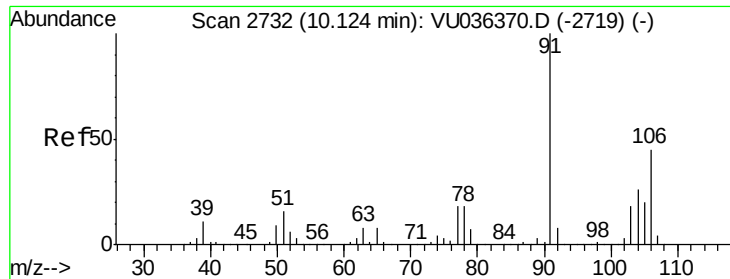
91 206.5 146.5 272.1



Abundance Ion 106.15 (105.85 to 106.85): VU036370.D (-2592) (-)

Ion 91.15 (90.85 to 91.85): VU036370.D (-2592) (-)

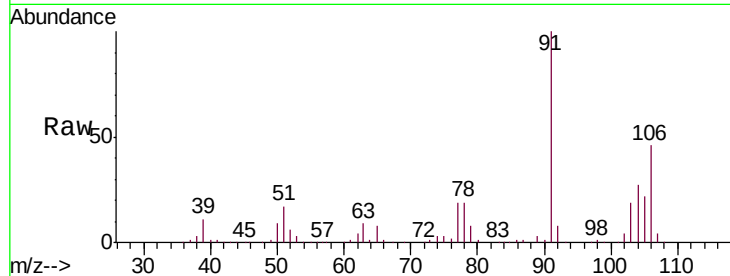




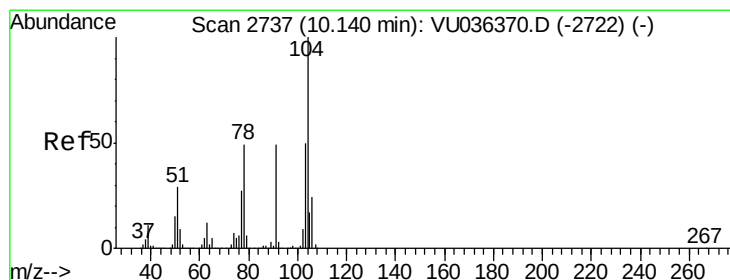
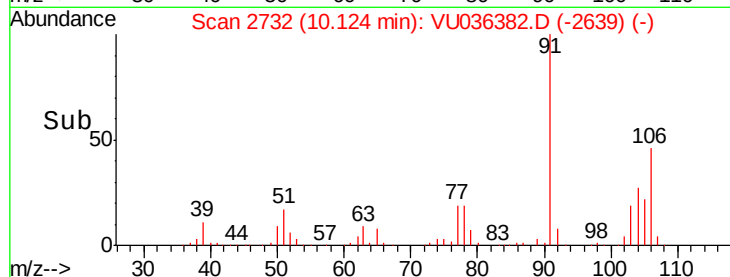
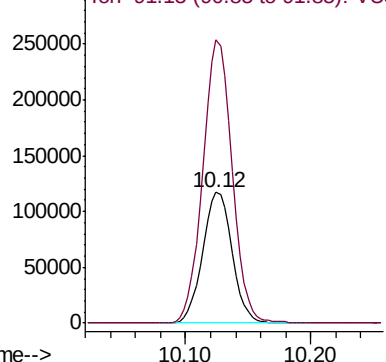
#54
o-Xylene
Concen: 4.918 ug/L
RT: 10.12 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VU036382.D
Acq: 31 Dec 2019 10:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

Tgt Ion:106 Resp: 191635
Ion Ratio Lower Upper
106 100
91 216.4 151.5 281.5

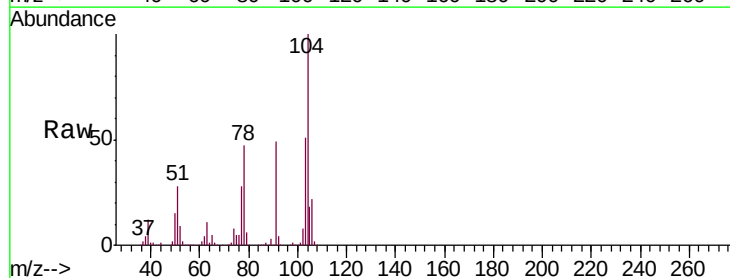


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

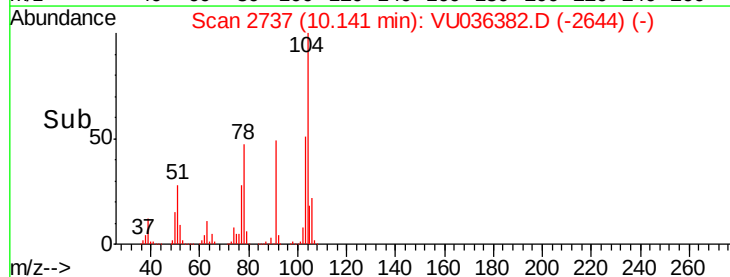
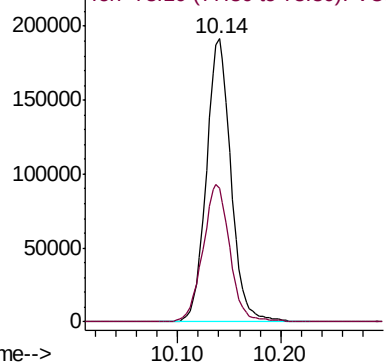


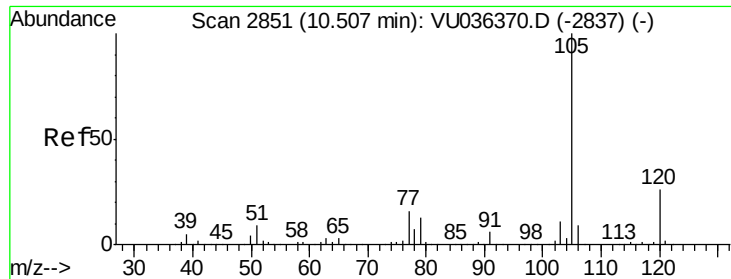
#55
Styrene
Concen: 4.805 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. 0.00 min
Lab File: VU036382.D
Acq: 31 Dec 2019 10:36

Tgt Ion:104 Resp: 318231
Ion Ratio Lower Upper
104 100
78 47.0 33.5 62.1



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





#56

Isopropylbenzene

Concen: 4.870 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

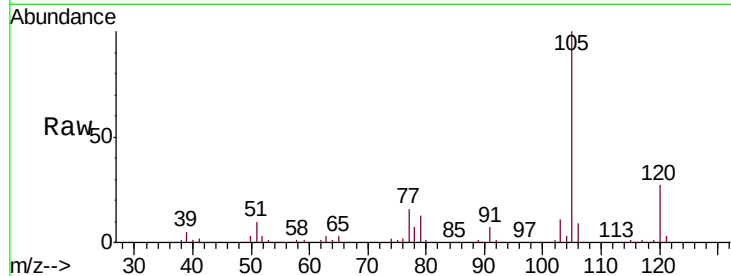
Tgt Ion: 105 Resp: 503821

Ion Ratio Lower Upper

105 100

120 26.6 21.1 31.7

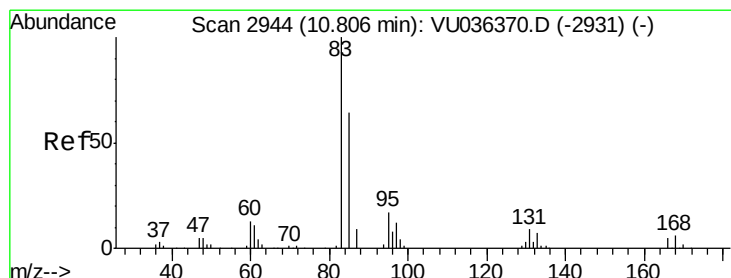
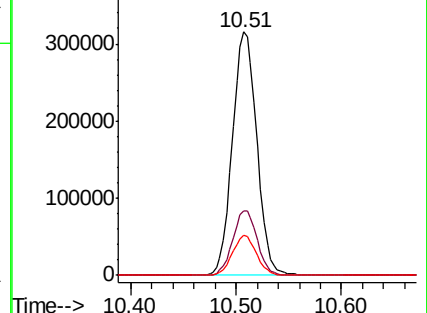
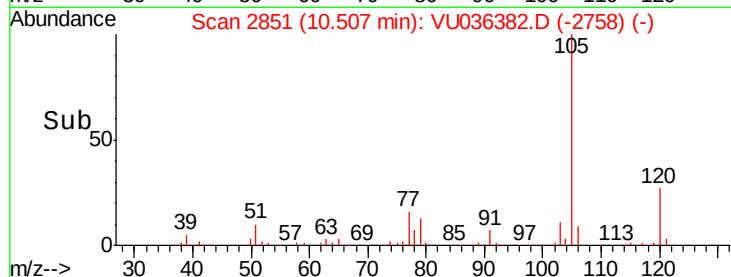
77 16.1 13.2 19.8



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: 4.602 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

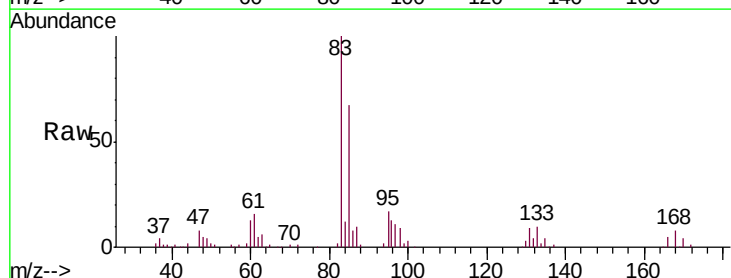
Tgt Ion: 83 Resp: 99092

Ion Ratio Lower Upper

83 100

85 67.3 47.5 88.1

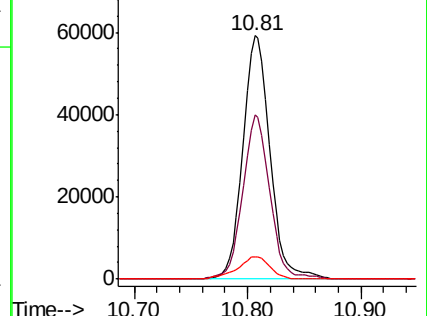
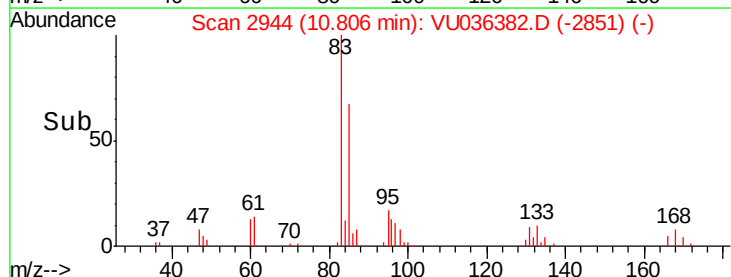
131 9.3 8.8 13.2

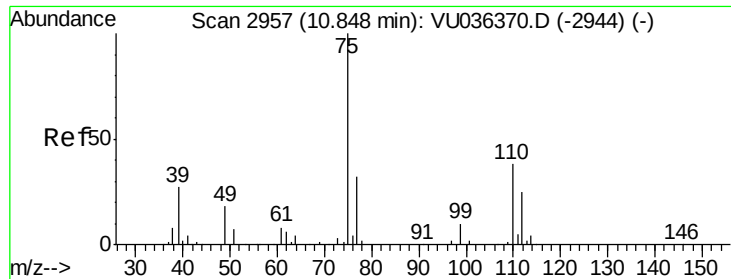


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

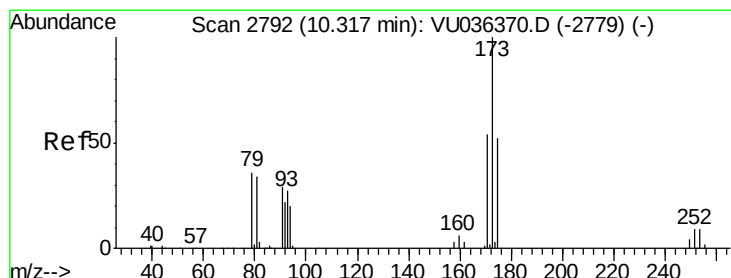
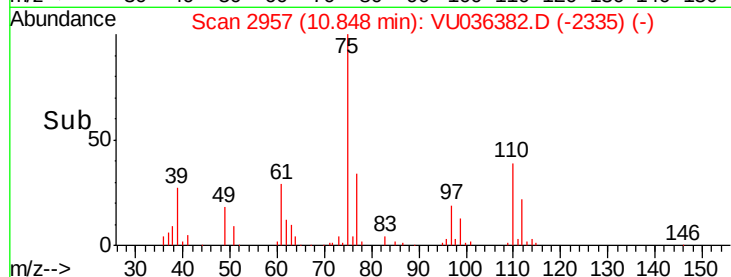
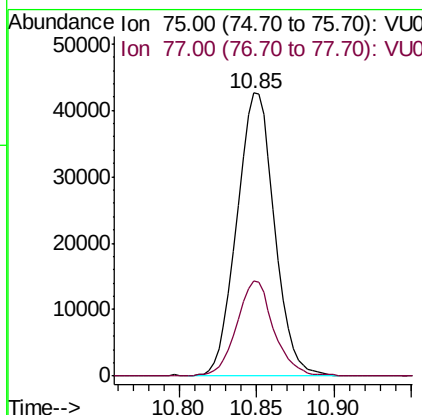
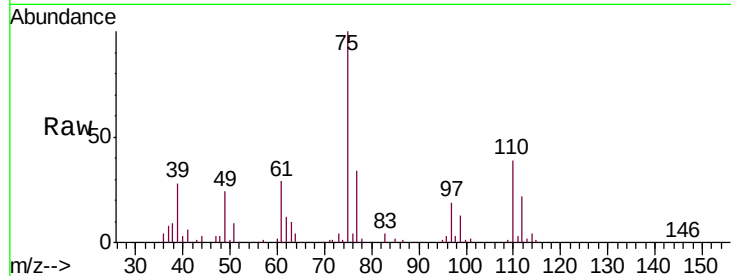




#59
 1,2,3-Trichloropropane
 Concen: 4.766 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

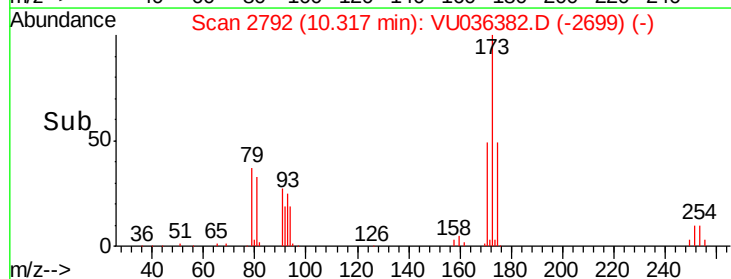
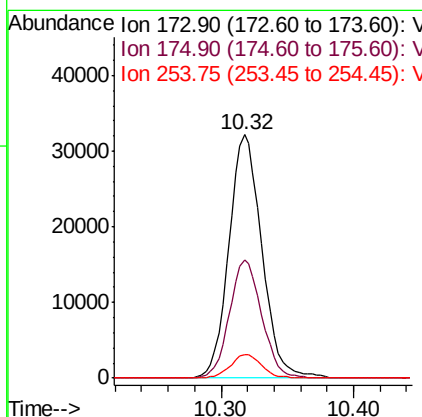
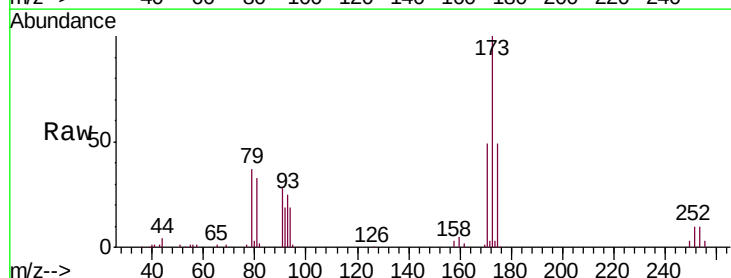
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

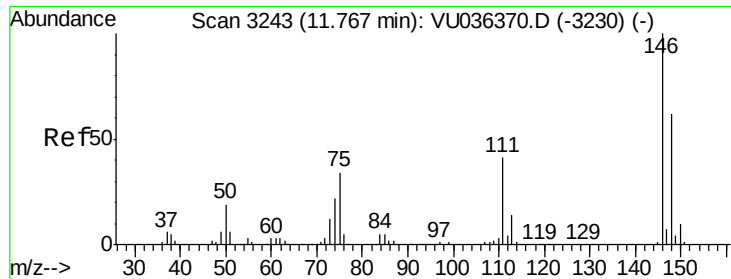
Tgt Ion: 75 Resp: 72219
 Ion Ratio Lower Upper
 75 100
 77 33.4 27.0 40.4



#61
 Bromoform
 Concen: 4.596 ug/L
 RT: 10.32 min Scan# 2792
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Tgt Ion: 173 Resp: 55436
 Ion Ratio Lower Upper
 173 100
 175 47.4 37.0 55.4
 254 9.0 7.0 10.6





#62

1,3-Dichlorobenzene

Concen: 4.726 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

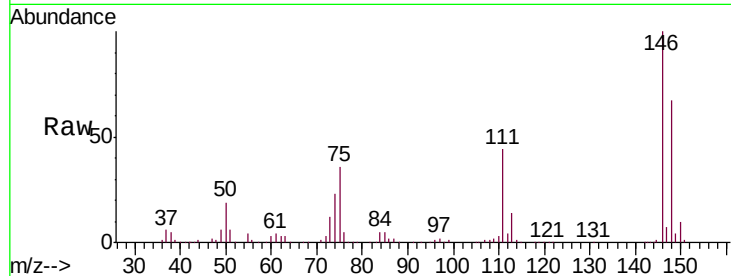
Tgt Ion:146 Resp: 213670

Ion Ratio Lower Upper

146 100

111 44.0 30.2 56.0

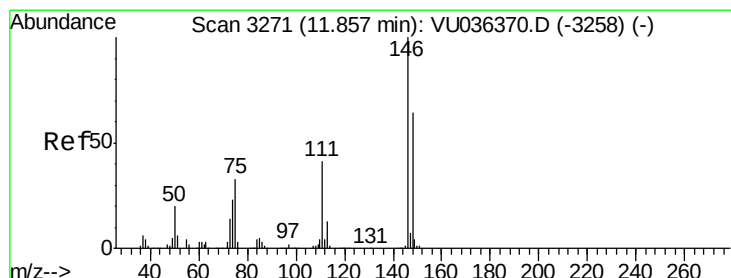
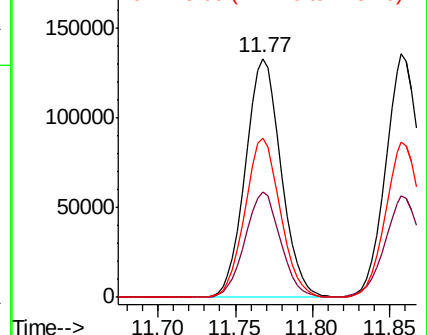
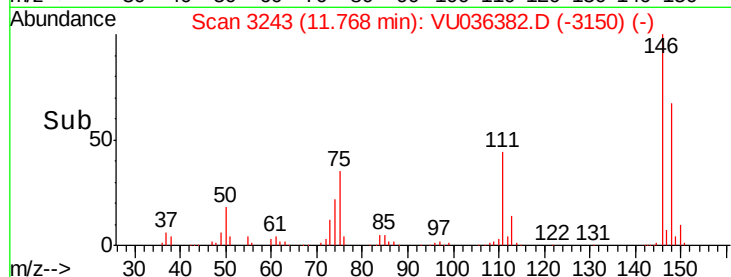
148 66.8 44.2 82.0



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



#63

1,4-Dichlorobenzene

Concen: 4.781 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

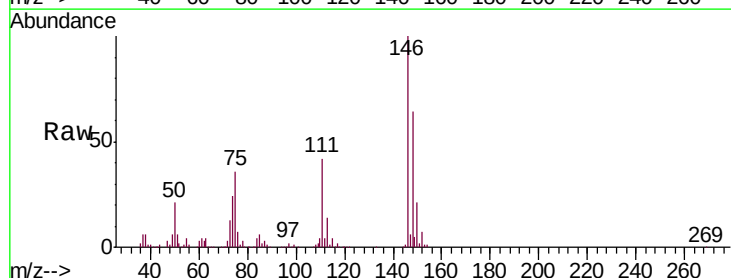
Tgt Ion:146 Resp: 213754

Ion Ratio Lower Upper

146 100

111 41.5 28.6 53.0

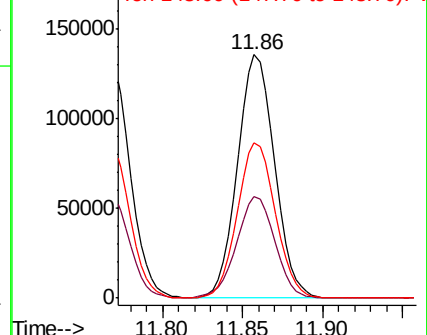
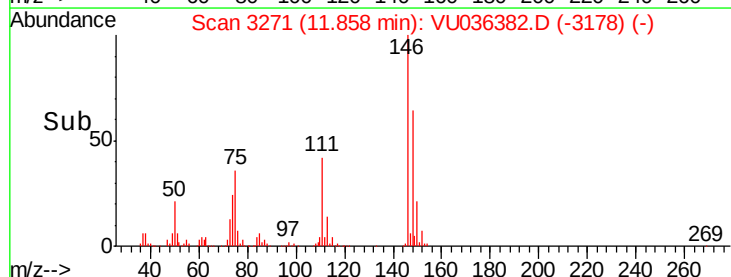
148 63.8 45.0 83.6

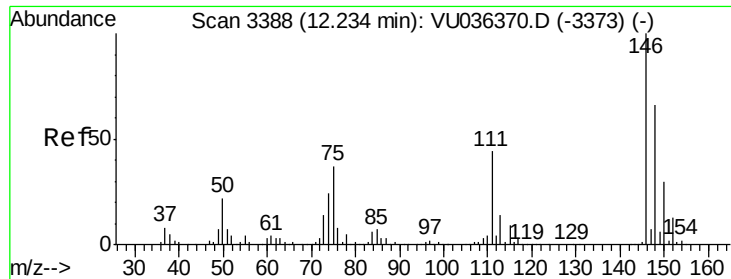


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

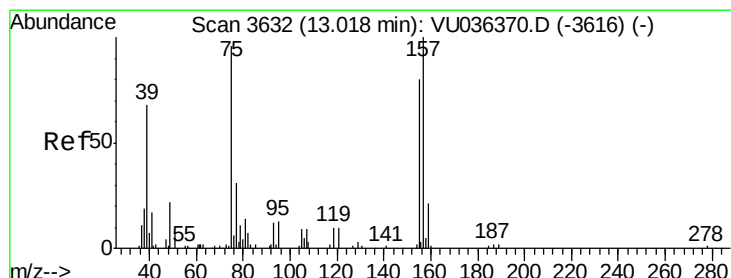
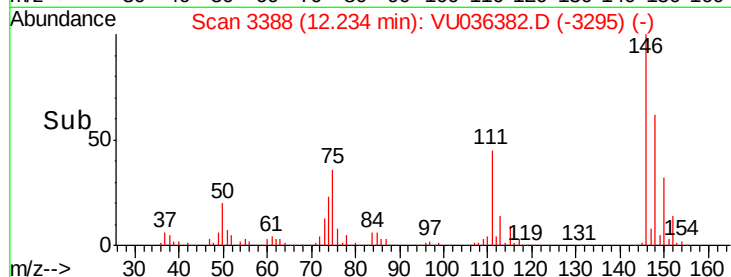
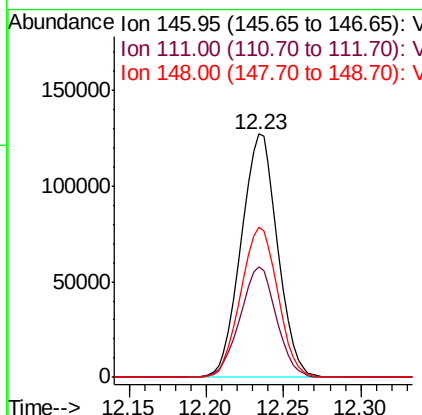
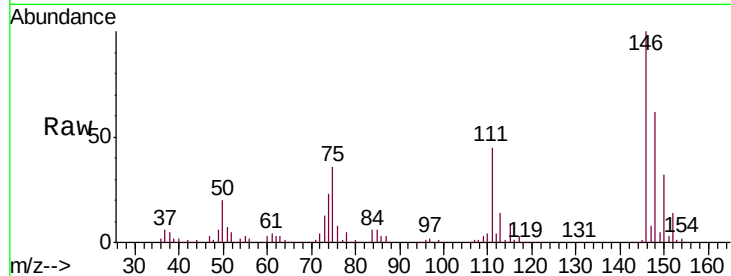




#65
 1,2-Dichlorobenzene
 Concen: 4.897 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

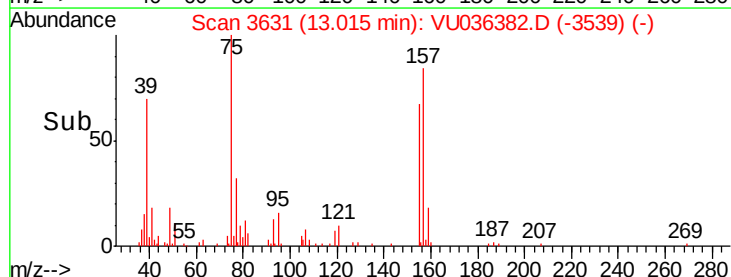
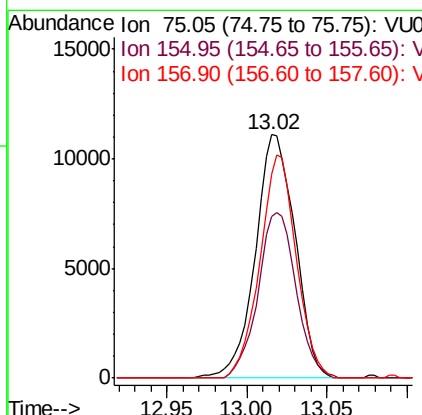
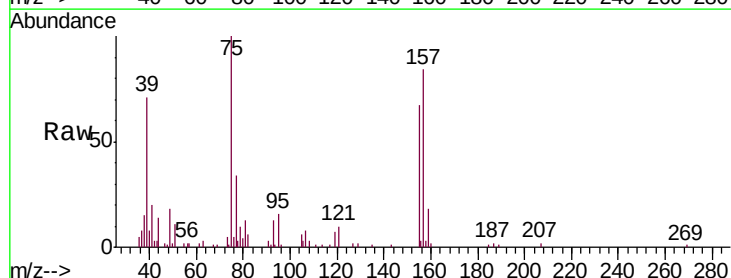
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

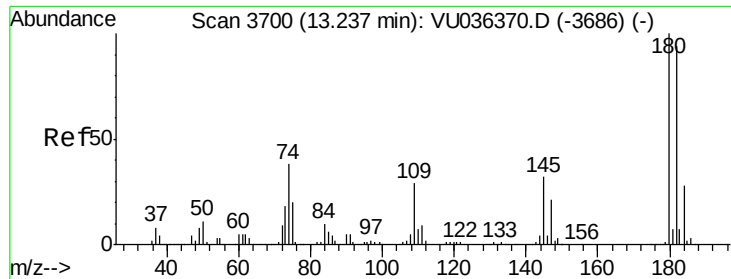
Tgt Ion: 146 Resp: 208530
 Ion Ratio Lower Upper
 146 100
 111 45.4 36.4 54.6
 148 61.7 53.4 80.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.851 ug/L
 RT: 13.02 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Tgt Ion: 75 Resp: 18988
 Ion Ratio Lower Upper
 75 100
 155 66.6 58.6 88.0
 157 83.7 78.7 118.1

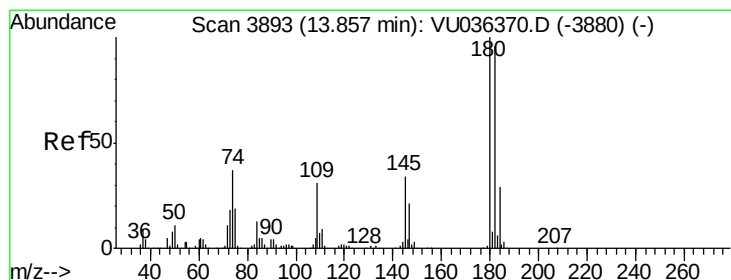
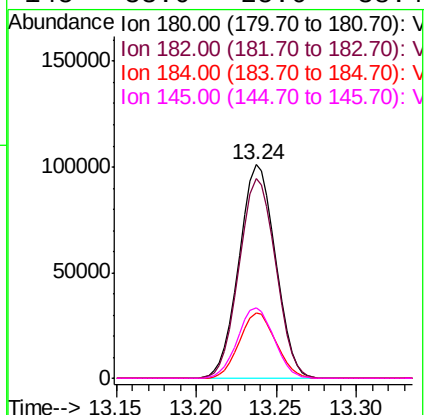
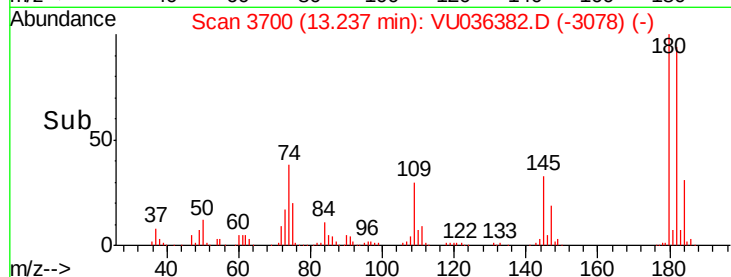
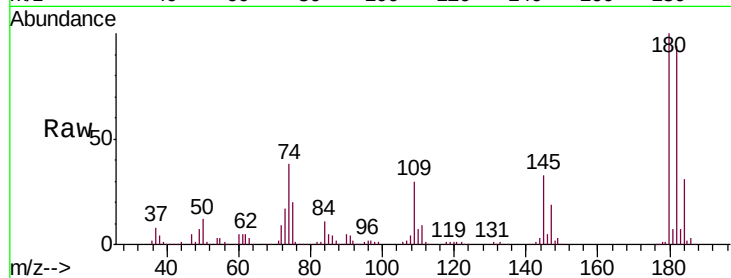




#67
 1,3,5-Trichlorobenzene
 Concen: 4.883 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

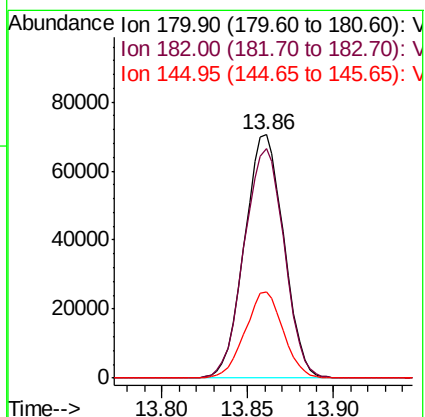
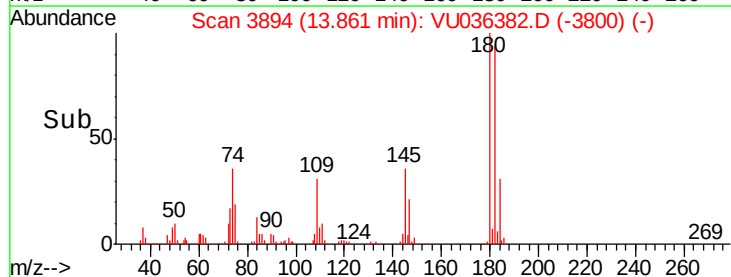
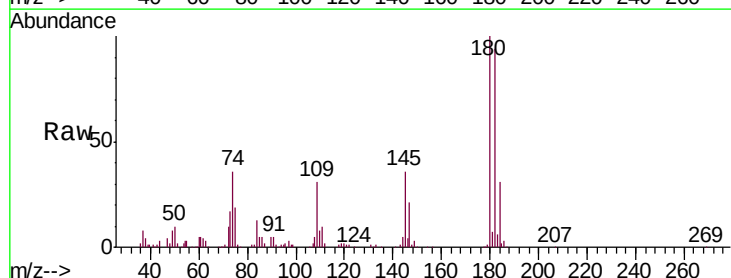
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

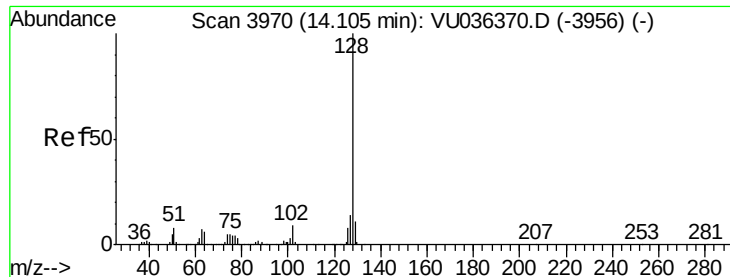
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	75.2	112.8
184	30.4	23.3	34.9
145	33.0	25.6	38.4



#68
 1,2,4-trichlorobenzene
 Concen: 4.752 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036382.D
 Acq: 31 Dec 2019 10:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	75.5	113.3
145	34.2	26.2	39.2





#69

Naphthalene

Concen: 4.350 ug/L

RT: 14.11 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

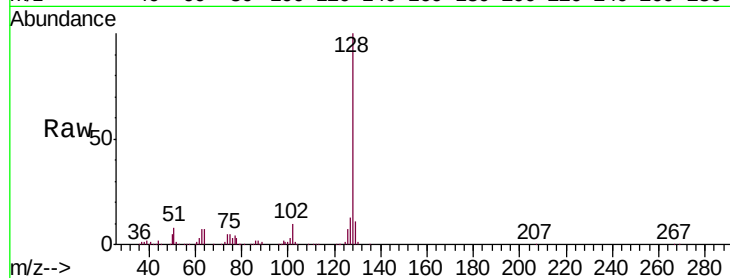
Tgt Ion:128 Resp: 178694

Ion Ratio Lower Upper

128 100

129 11.1 8.6 13.0

127 13.5 10.6 15.8



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

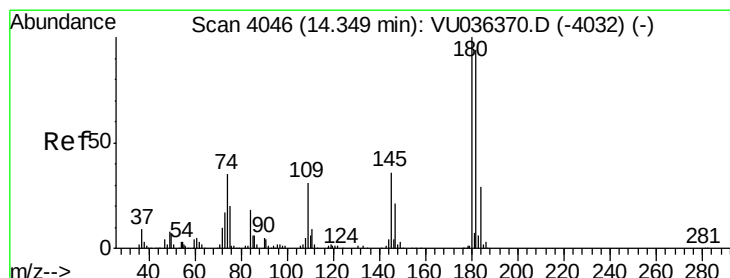
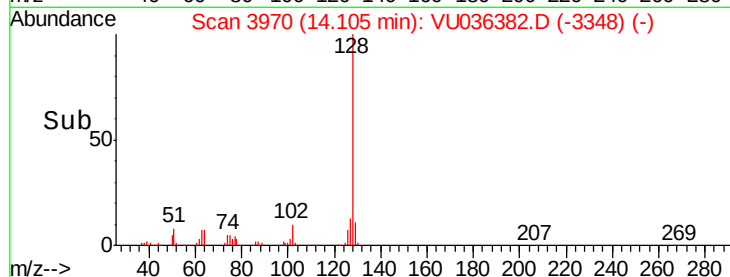
14.11

100000

50000

0

Time--> 14.00 14.10 14.20



#70

1,2,3-Trichlorobenzene

Concen: 4.607 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036382.D

Acq: 31 Dec 2019 10:36

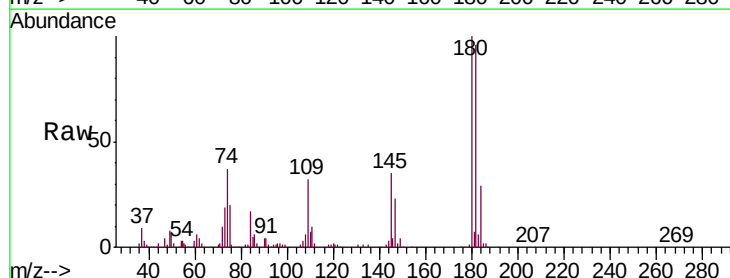
Tgt Ion:180 Resp: 104784

Ion Ratio Lower Upper

180 100

182 94.4 75.0 112.4

145 34.6 28.2 42.4



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

14.35

80000

60000

40000

20000

0

Time--> 14.30 14.35 14.40

