

Data File : VU031421.D
Acq On : 23 Apr 2019 04:17
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

Quant Time: Apr 23 05:36:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042319WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 23 04:02:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	735930	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	680711	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	320450	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	278863	46.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.52%
7) Chloroethane-d5	1.68	69	225735	49.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.44%
11) 1,1-Dichloroethene-d2	2.27	63	509350	49.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.20%
21) 2-Butanone-d5	4.19	46	442442	99.24	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.24%
24) Chloroform-d	4.64	84	445423	46.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.74%
26) 1,2-Dichloroethane-d4	5.31	65	267721	47.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.06%
32) Benzene-d6	5.34	84	927105	47.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.30%
36) 1,2-Dichloropropane-d6	6.32	67	307412	48.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.16%
41) Toluene-d8	7.56	98	832696	47.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.82%
43) trans-1,3-Dichloropropene-	7.85	79	135718	47.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.14%
47) 2-Hexanone-d5	8.31	63	317608	100.18	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.18%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	421774	49.13	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.26%
64) 1,2-Dichlorobenzene-d4	11.85	152	315597	48.18	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.36%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	250202	47.967	ug/L	100
3) Chloromethane	1.32	50	320684	48.200	ug/L	99
5) Vinyl chloride	1.40	62	326081	49.743	ug/L	99
6) Bromomethane	1.63	94	179823	46.996	ug/L	100
8) Chloroethane	1.70	64	193194	51.718	ug/L	99
9) Trichlorofluoromethane	1.88	101	400195	50.940	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	226595	49.721	ug/L	98
12) 1,1-Dichloroethene	2.28	96	229414	51.171	ug/L	99
13) Acetone	2.34	43	290785	83.079	ug/L	100
14) Carbon disulfide	2.47	76	674877	50.153	ug/L	100
15) Methyl Acetate	2.62	43	331473	51.842	ug/L	100
16) Methylene chloride	2.70	84	256200	50.161	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	237788	51.425	ug/L	99
18) Methyl tert-butyl Ether	2.99	73	789807	51.935	ug/L	100
19) 1,1-Dichloroethane	3.44	63	457781	50.644	ug/L	96
20) cis-1,2-Dichloroethene	4.22	96	260773	49.704	ug/L	99
22) 2-Butanone	4.28	43	444186	97.929	ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	128493	48.833	ug/L	97
25) Chloroform	4.67	83	439935	50.498	ug/L	95
27) 1,2-Dichloroethane	5.40	62	320951	49.399	ug/L	98
29) Cyclohexane	4.99	56	424980	51.453	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	357319	49.237	ug/L	99
31) Carbon tetrachloride	5.13	117	309607	49.831	ug/L	97
33) Benzene	5.39	78	986358	50.072	ug/L	100
34) Trichloroethene	6.18	95	265804	50.948	ug/L	100
35) Methylcyclohexane	6.41	83	390912	51.205	ug/L	98
37) 1,2-Dichloropropane	6.43	63	276833	52.752	ug/L	100
38) Bromodichloromethane	6.75	83	328300	50.999	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	382334	48.680	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	810995	101.686	ug/L	100
42) Toluene	7.63	91	1041966	50.972	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	335964	49.624	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	241355	50.075	ug/L	98
46) Tetrachloroethene	8.22	164	188456	50.932	ug/L	98
48) 2-Hexanone	8.36	43	646179	103.863	ug/L	99
49) Dibromochloromethane	8.47	129	261500	51.137	ug/L	100
50) 1,2-Dibromoethane	8.58	107	266558	52.581	ug/L #	99
51) Chlorobenzene	9.12	112	635937	50.128	ug/L	99
52) Ethylbenzene	9.25	91	1119260	51.108	ug/L	99
53) m,p-Xylene	9.37	106	415464	51.979	ug/L	99
54) o-xylene	9.77	106	415849	51.748	ug/L	100
55) Styrene	9.79	104	702131	52.536	ug/L	97
56) Isopropylbenzene	10.16	105	1090687	52.830	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	415328	49.910	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	318820	49.225	ug/L	99
61) Bromoform	9.95	173	201199	51.067	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	470671	50.157	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	482990	51.595	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	496598	51.767	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	94075	53.029	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	360940	52.190	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	320161	57.586	ug/L	99
69) Naphthalene	13.74	128	1127154	58.317	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	329213	54.994	ug/L	99

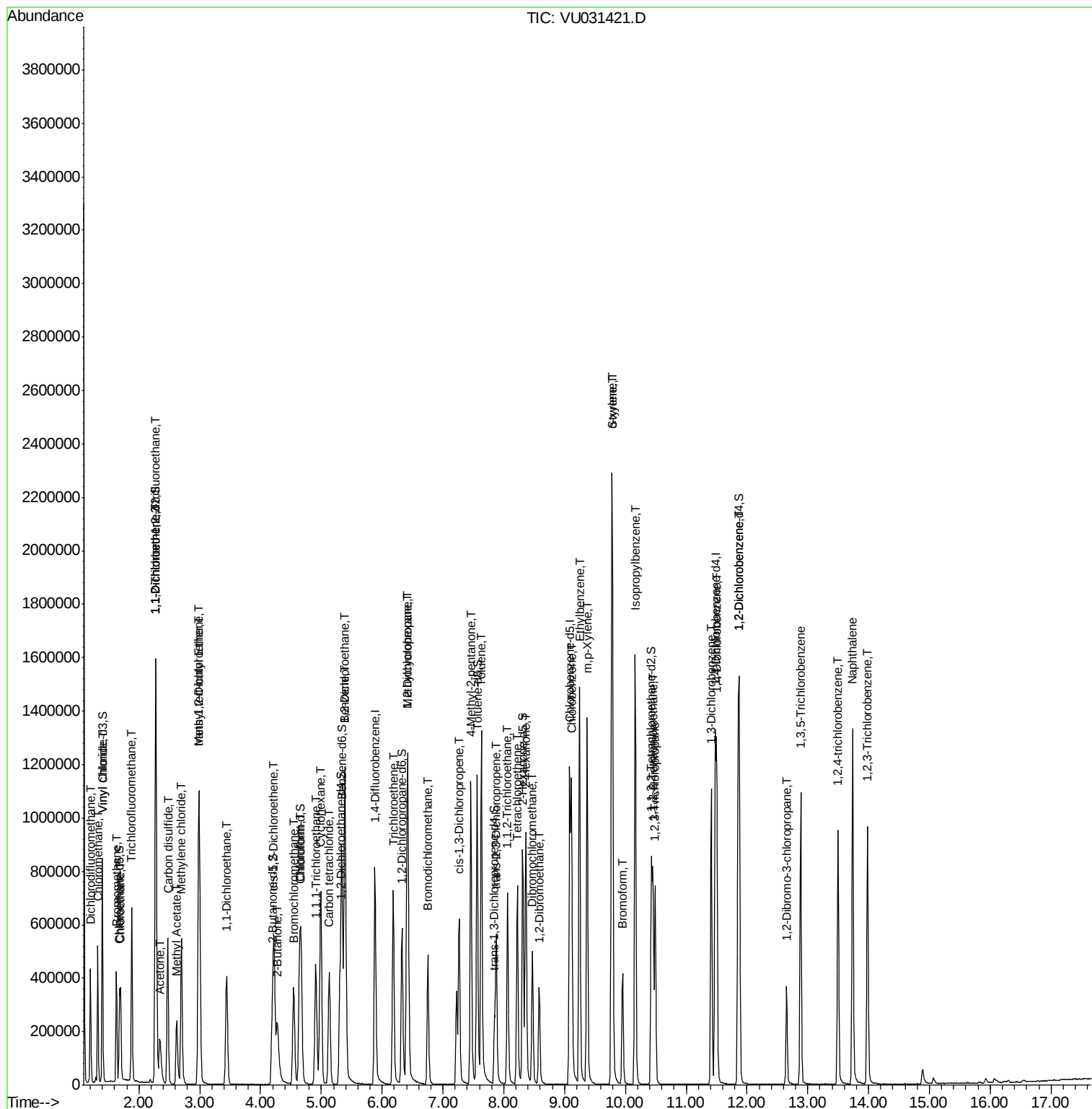
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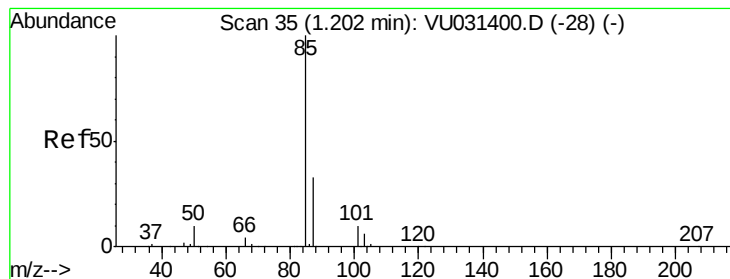
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#2

Dichlorodifluoromethane

Concen: 47.967 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampled :

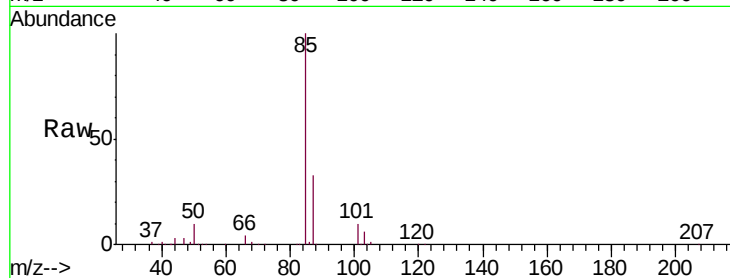
VSTD05046

Tgt Ion: 85 Resp: 250202

Ion Ratio Lower Upper

85 100

87 32.9 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU031400.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031400.D (-28) (-)

1.20

250000

200000

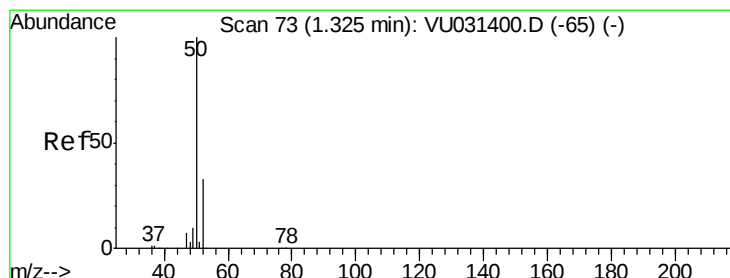
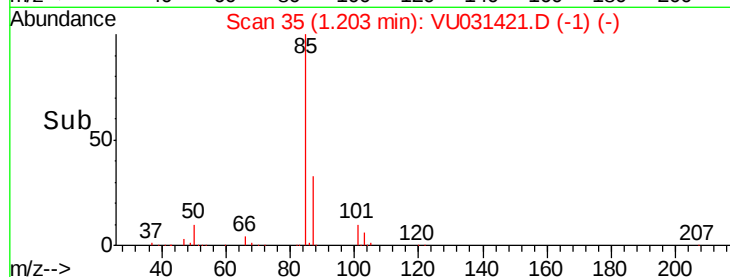
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 48.200 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031421.D

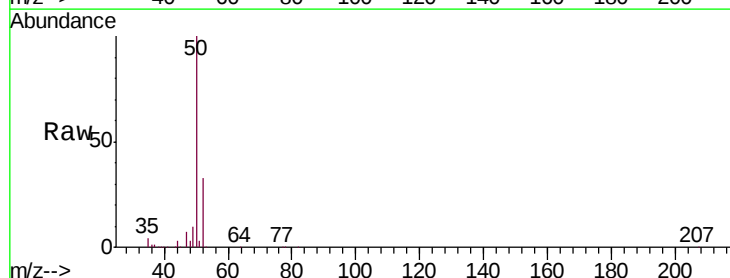
Acq: 23 Apr 2019 04:17

Tgt Ion: 50 Resp: 320684

Ion Ratio Lower Upper

50 100

52 33.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU031400.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU031400.D (-65) (-)

1.32

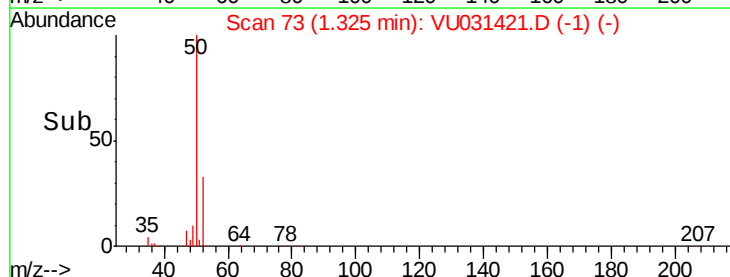
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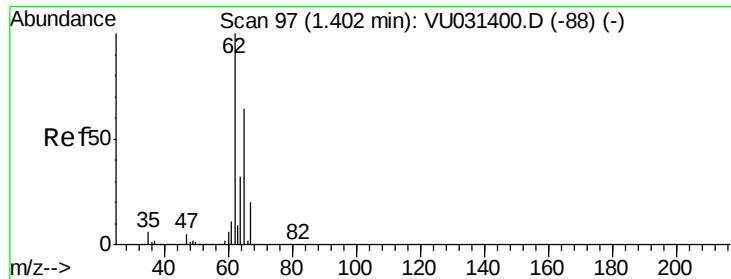
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 49.743 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

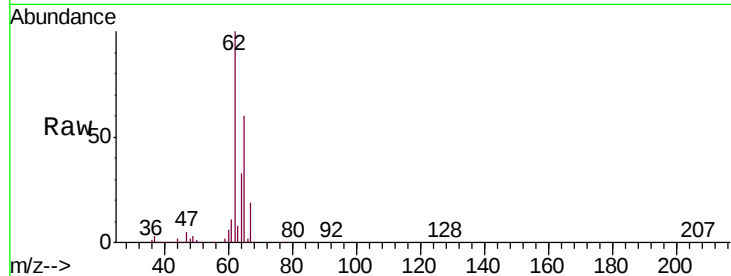
VSTD05046

Tgt Ion: 62 Resp: 326081

Ion Ratio Lower Upper

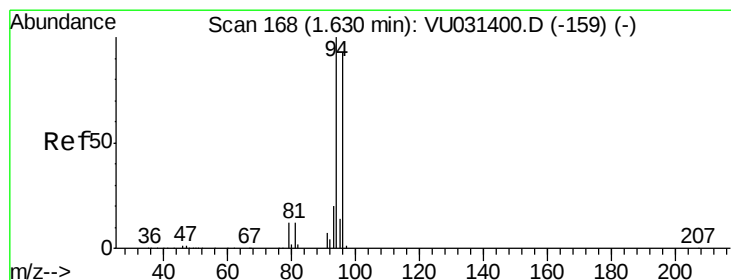
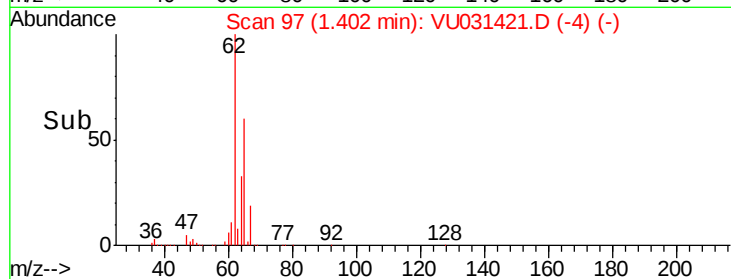
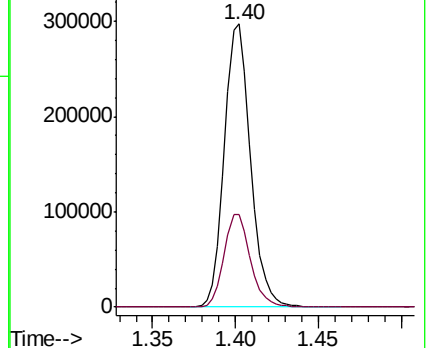
62 100

64 32.8 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU031400.D

Ion 64.00 (63.70 to 64.70): VU031400.D



#6

Bromomethane

Concen: 46.996 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031421.D

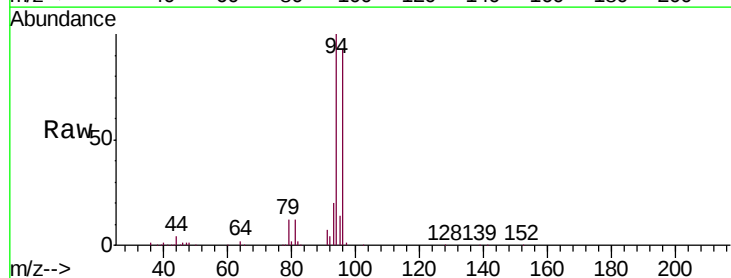
Acq: 23 Apr 2019 04:17

Tgt Ion: 94 Resp: 179823

Ion Ratio Lower Upper

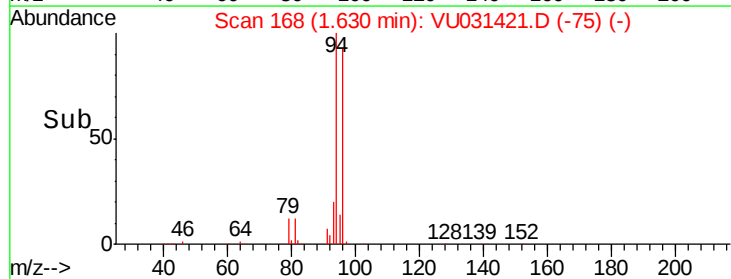
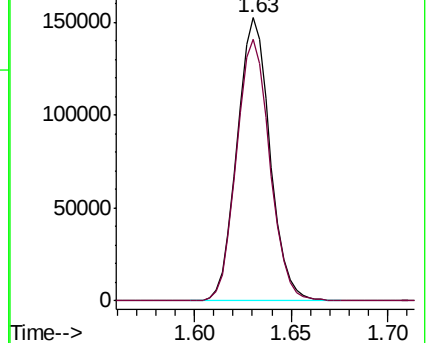
94 100

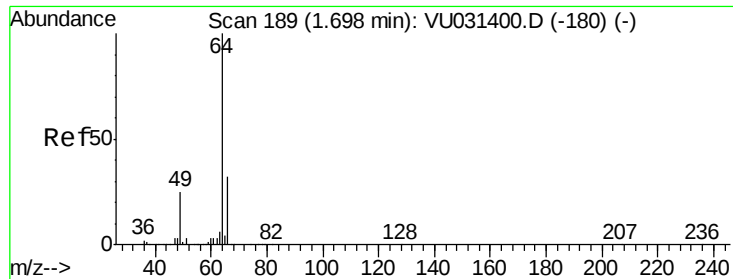
96 92.6 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU031400.D

Ion 96.00 (95.70 to 96.70): VU031400.D

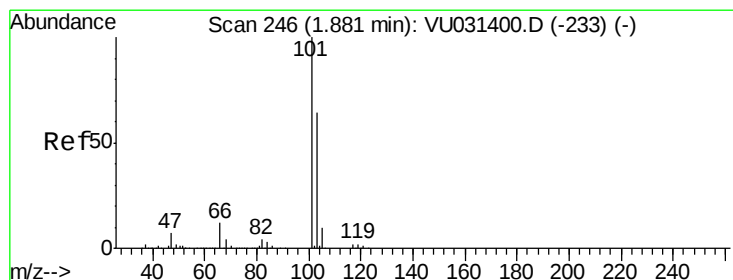
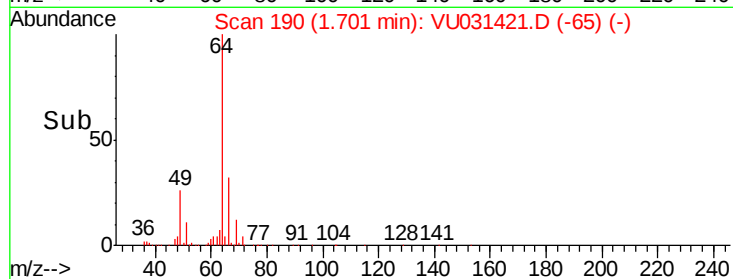
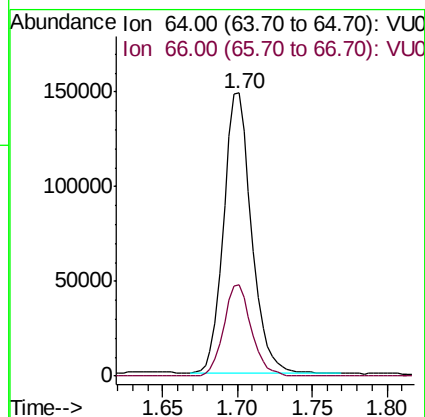
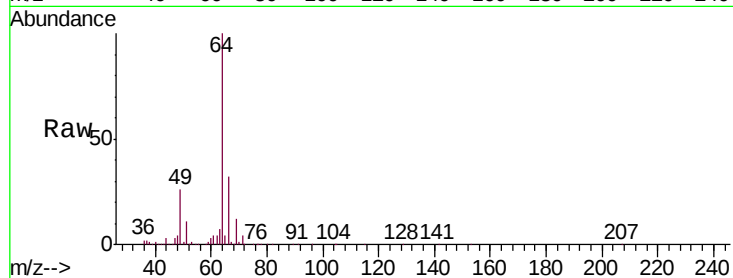




#8
Chloroethane
Concen: 51.718 ug/L
RT: 1.70 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU031421.D
Acq: 23 Apr 2019 04:17

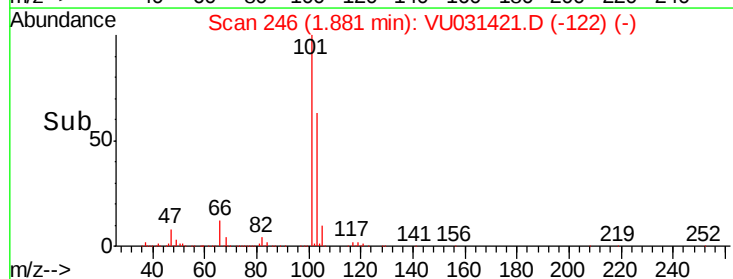
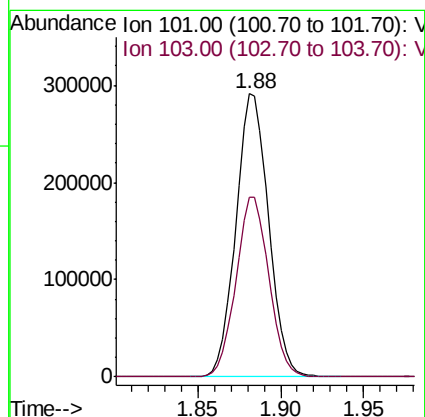
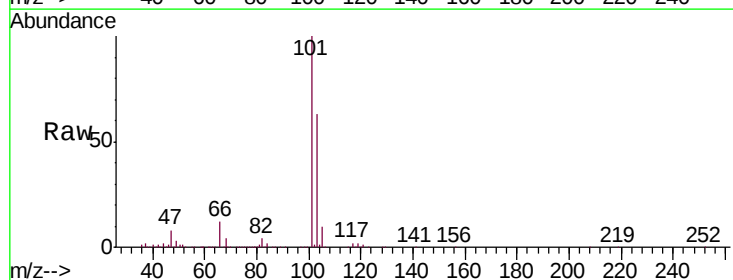
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

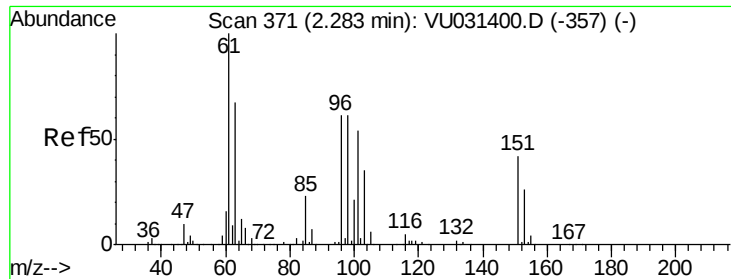
Tgt Ion: 64 Resp: 193194
Ion Ratio Lower Upper
64 100
66 32.2 22.1 41.1



#9
Trichlorofluoromethane
Concen: 50.940 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU031421.D
Acq: 23 Apr 2019 04:17

Tgt Ion: 101 Resp: 400195
Ion Ratio Lower Upper
101 100
103 64.0 51.4 77.2





#10

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

Concen: 49.721 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

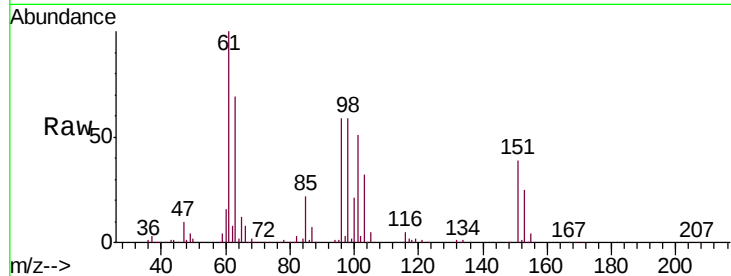
Tgt Ion: 101 Resp: 226595

Ion Ratio Lower Upper

101 100

85 43.5 33.1 49.7

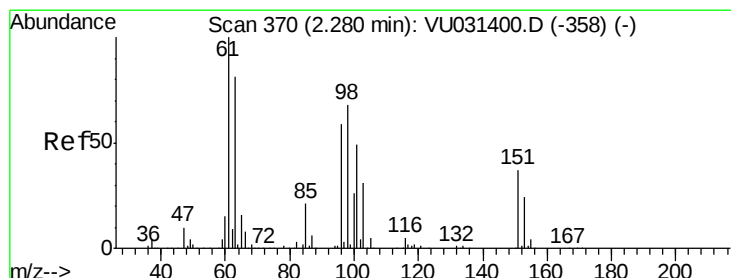
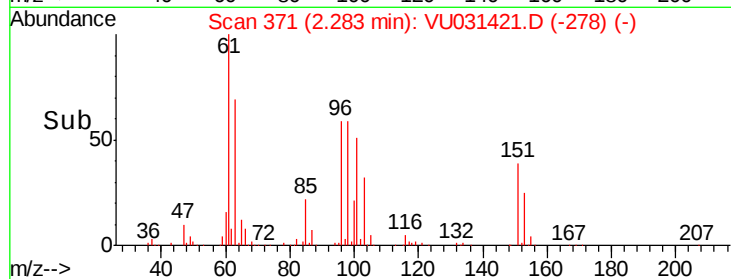
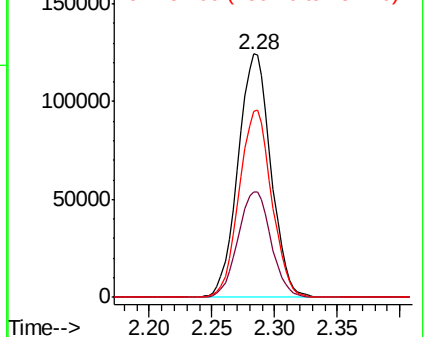
151 76.0 61.4 92.0



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: 51.171 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

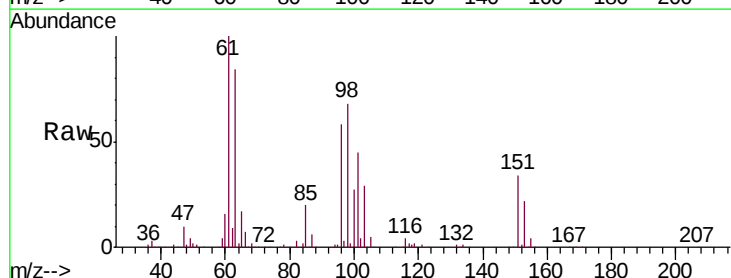
Tgt Ion: 96 Resp: 229414

Ion Ratio Lower Upper

96 100

61 171.2 118.9 220.9

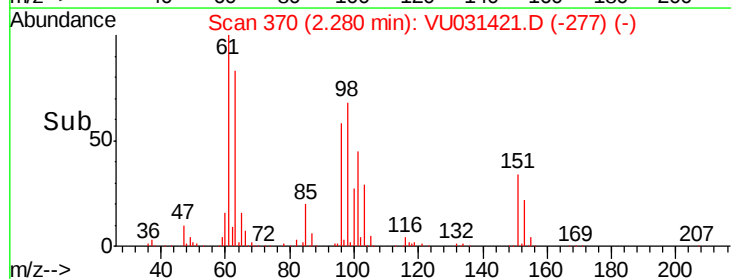
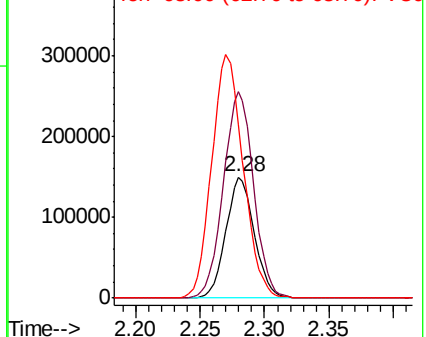
63 143.0 99.3 184.3

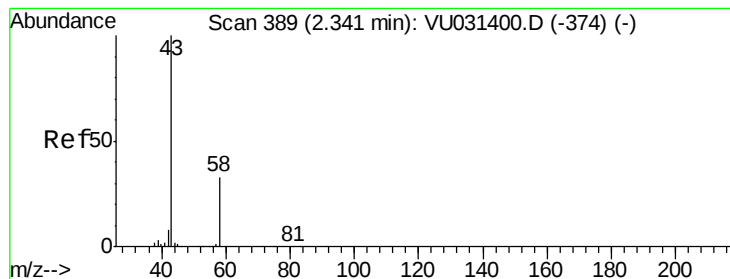


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 83.079 ug/L

RT: 2.34 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU031421.D

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ClientSampleId :

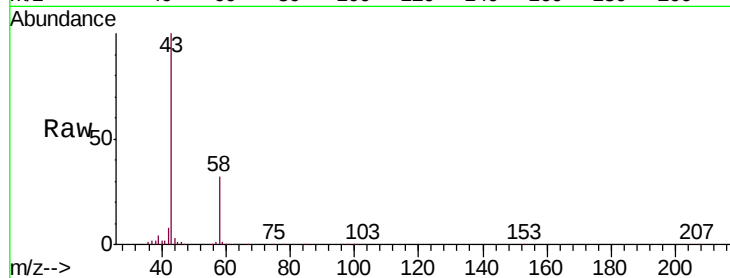
VSTD05046

Tgt Ion: 43 Resp: 290785

Ion Ratio Lower Upper

43 100

58 33.4 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VU031400.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031400.D (-374) (-)

120000

100000

80000

60000

40000

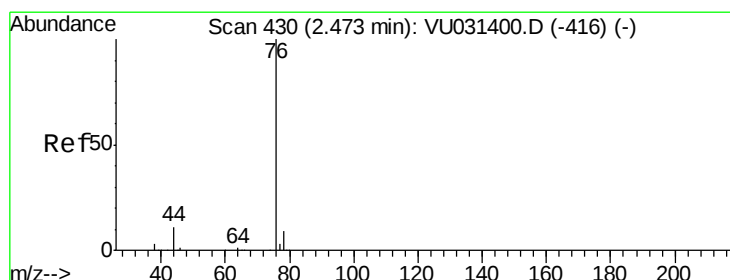
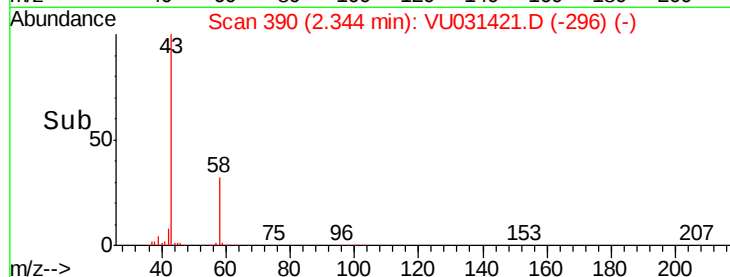
20000

0

2.34

2.30 2.40 2.50

Time-->



#14

Carbon disulfide

Concen: 50.153 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031421.D

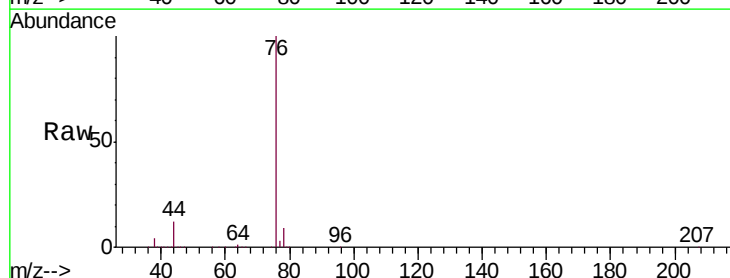
Acq: 23 Apr 2019 04:17

Tgt Ion: 76 Resp: 674877

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU031400.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU031400.D (-416) (-)

500000

400000

300000

200000

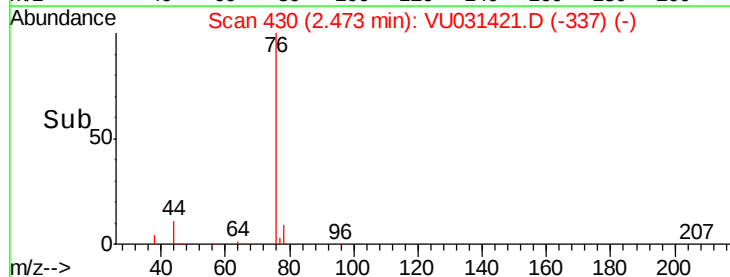
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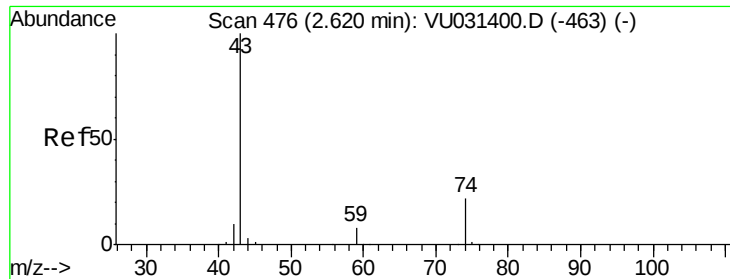
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2.47

2.40 2.45 2.50 2.55

Time-->

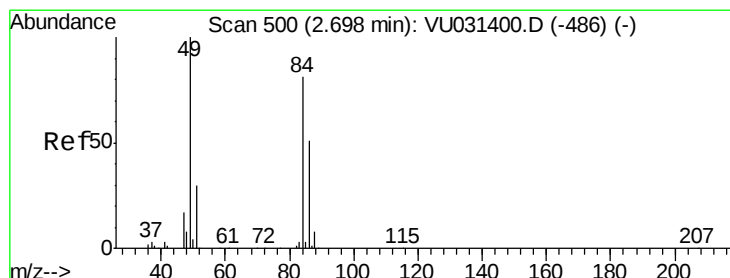
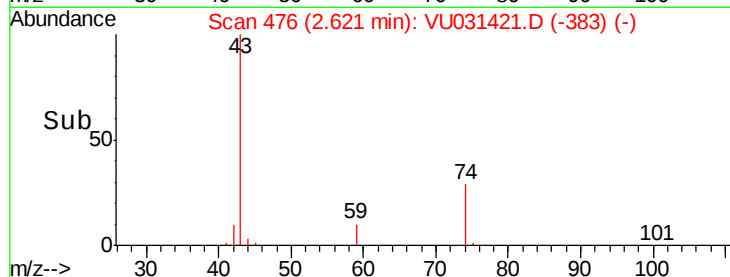
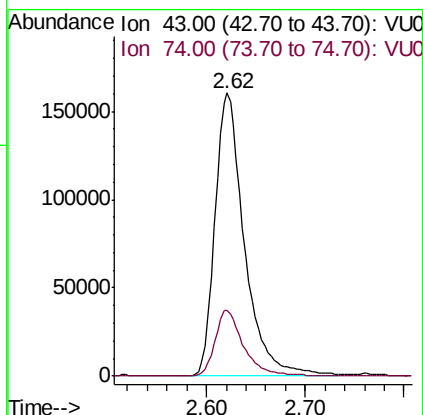
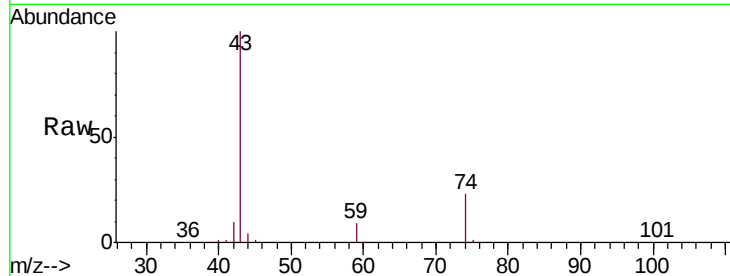




#15
Methyl Acetate
Concen: 51.842 ug/L
RT: 2.62 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU031421.D
Acq: 23 Apr 2019 04:17

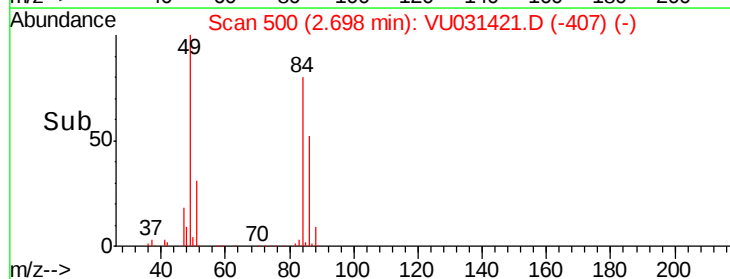
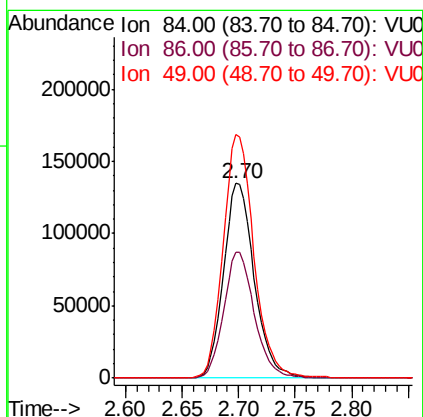
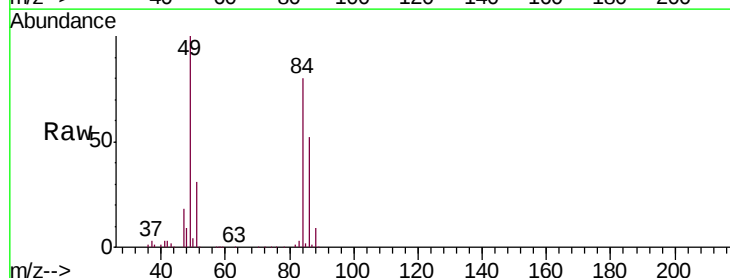
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

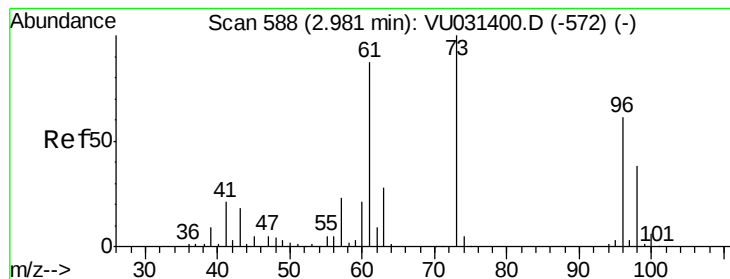
Tgt Ion: 43 Resp: 331473
Ion Ratio Lower Upper
43 100
74 22.5 18.1 27.1



#16
Methylene chloride
Concen: 50.161 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031421.D
Acq: 23 Apr 2019 04:17

Tgt Ion: 84 Resp: 256200
Ion Ratio Lower Upper
84 100
86 64.7 44.4 82.5
49 125.0 86.7 161.1





#17

trans-1,2-Dichloroethene

Concen: 51.425 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

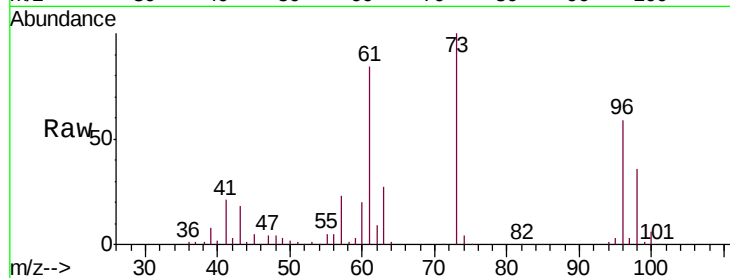
Tgt Ion: 96 Resp: 237788

Ion Ratio Lower Upper

96 100

61 142.6 100.3 186.3

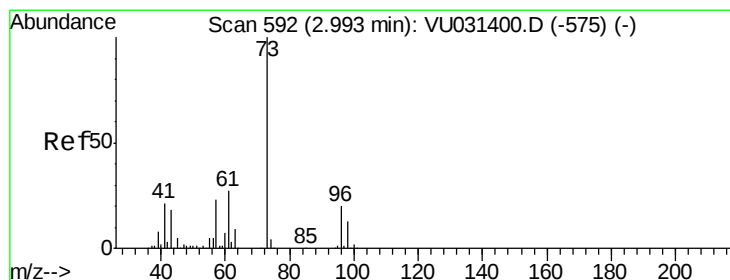
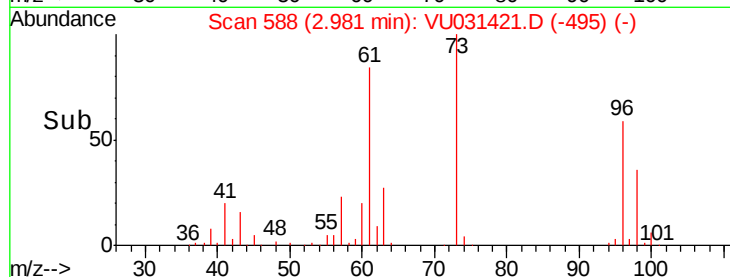
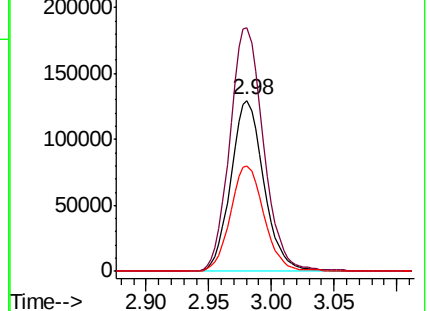
98 61.7 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031400.D (-572) (-)

Ion 61.00 (60.70 to 61.70): VU031400.D (-572) (-)

Ion 98.00 (97.70 to 98.70): VU031400.D (-572) (-)



#18

Methyl tert-butyl Ether

Concen: 51.935 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

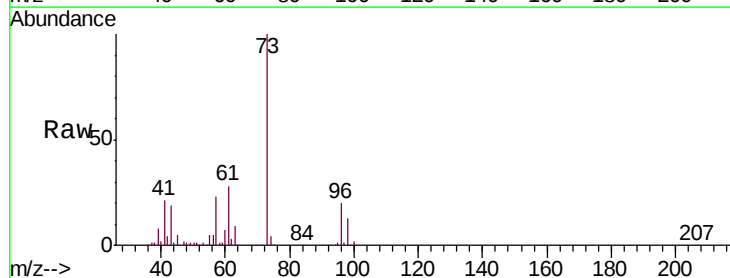
Tgt Ion: 73 Resp: 789807

Ion Ratio Lower Upper

73 100

43 18.3 14.6 21.8

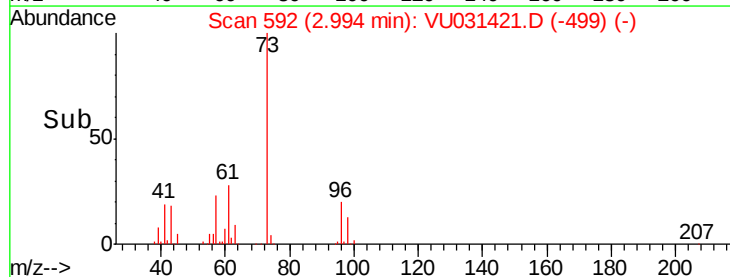
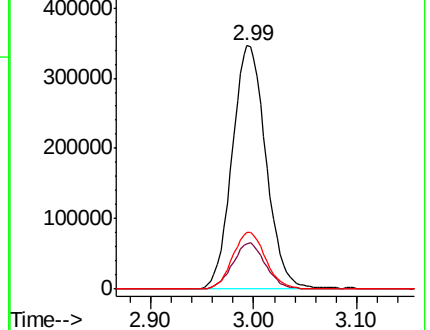
57 22.8 18.5 27.7

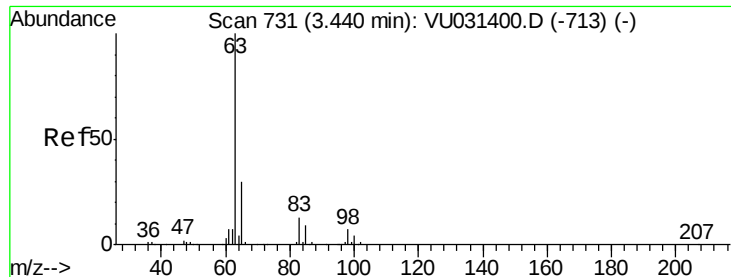


Abundance Ion 73.00 (72.70 to 73.70): VU031400.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031400.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031400.D (-575) (-)

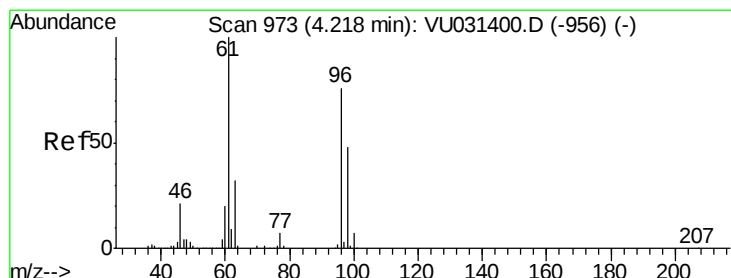
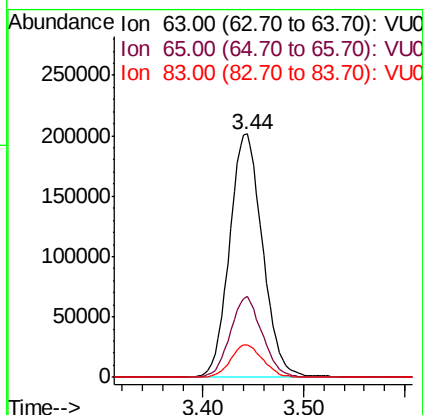
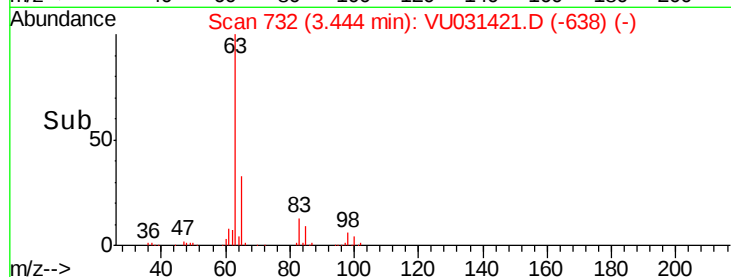
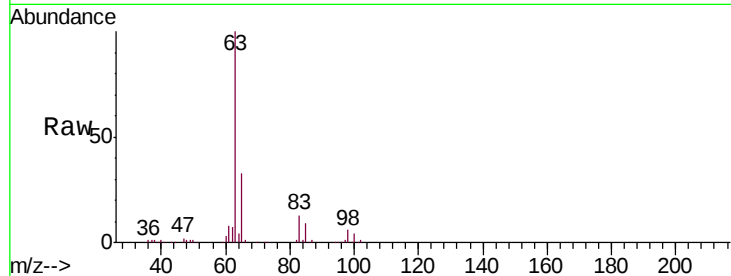




#19
 1,1-Dichloroethane
 Concen: 50.644 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

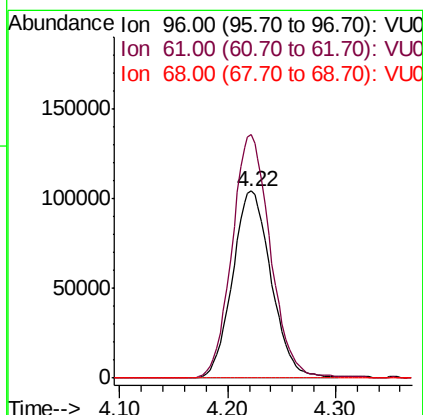
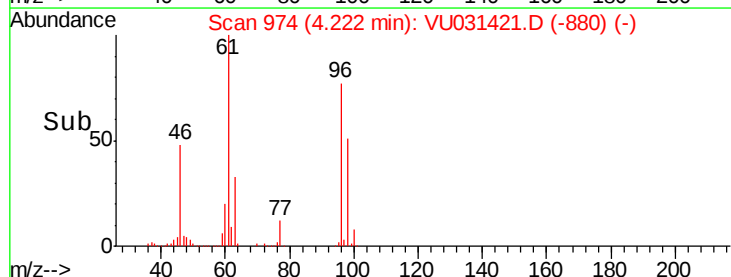
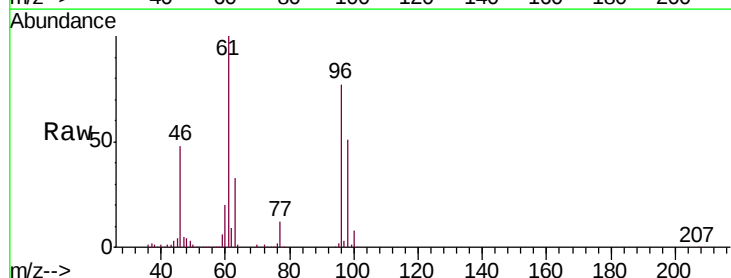
Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD05046

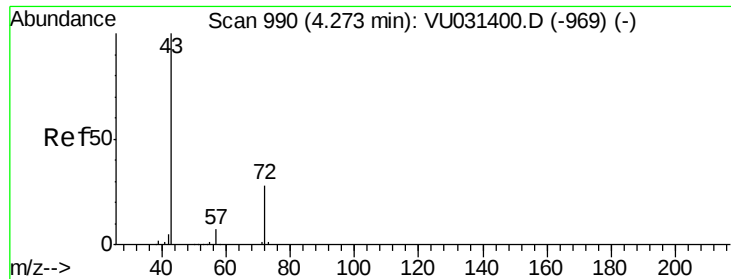
Tgt Ion: 63 Resp: 457781
 Ion Ratio Lower Upper
 63 100
 65 33.1 21.2 39.4
 83 13.1 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 49.704 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

Tgt Ion: 96 Resp: 260773
 Ion Ratio Lower Upper
 96 100
 61 130.2 91.9 170.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 97.929 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

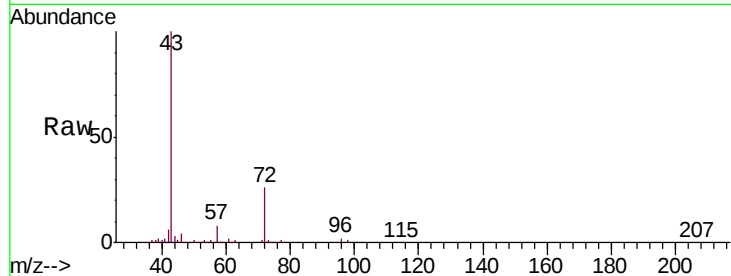
VSTD05046

Tgt Ion: 43 Resp: 444186

Ion Ratio Lower Upper

43 100

72 26.1 12.6 37.8



Abundance Ion 43.00 (42.70 to 43.70): VU031400.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU031400.D (-969) (-)

4.28

150000

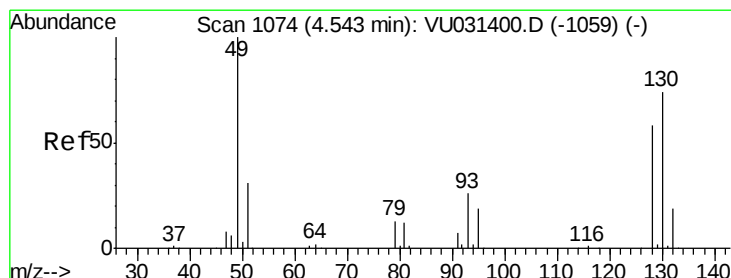
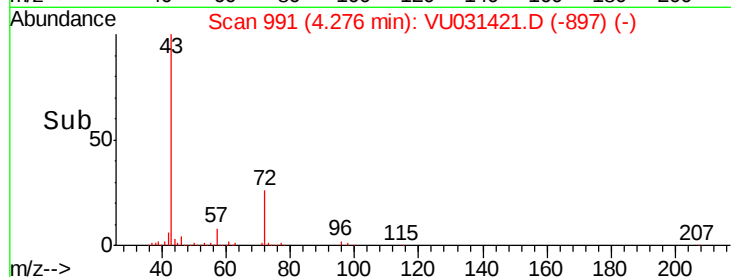
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 48.833 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Tgt Ion: 128 Resp: 128493

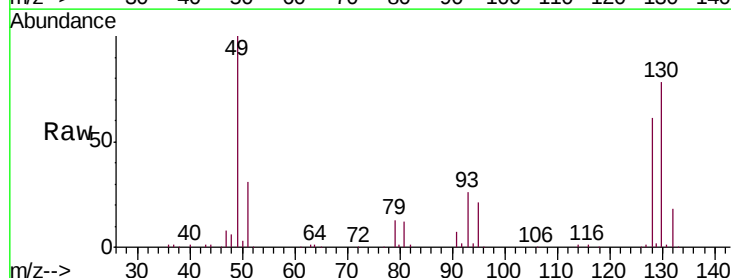
Ion Ratio Lower Upper

128 100

49 164.0 120.1 223.1

130 127.5 88.5 164.3

51 51.6 43.0 64.4



Abundance Ion 128.00 (127.70 to 128.70): VU031400.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU031400.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU031400.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU031400.D (-1059) (-)

4.55

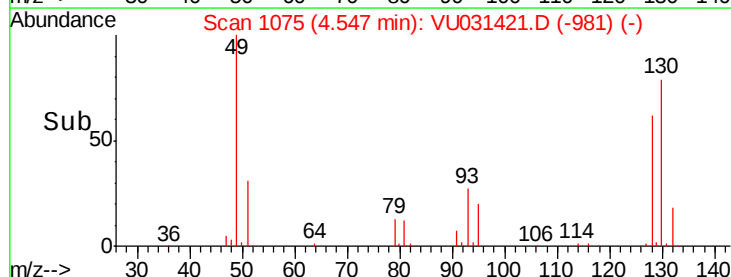
100000

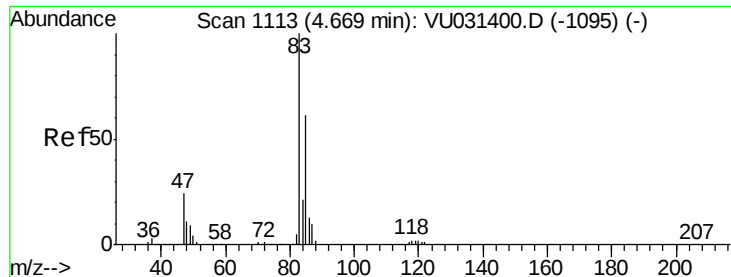
50000

0

4.45 4.50 4.55 4.60

Time-->





#25

Chloroform

Concen: 50.498 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

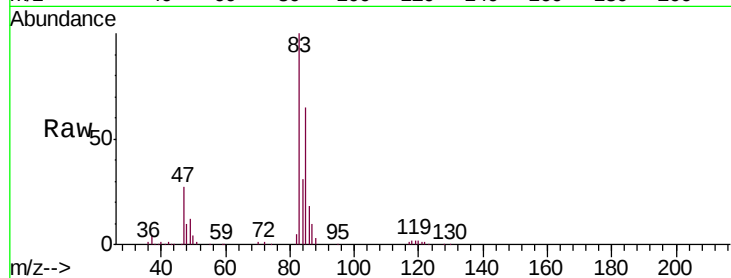
VSTD05046

Tgt Ion: 83 Resp: 439935

Ion Ratio Lower Upper

83 100

85 64.9 43.0 79.8



Abundance Ion 83.00 (82.70 to 83.70): VU031400.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU031400.D (-1095) (-)

4.67

200000

150000

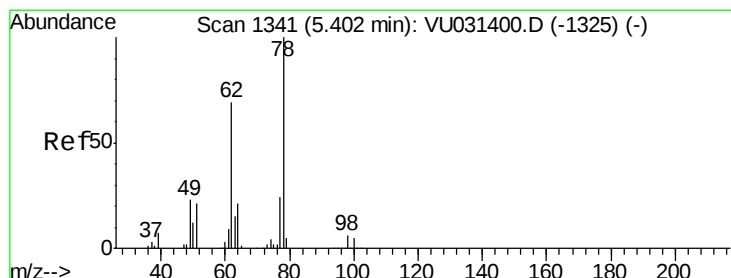
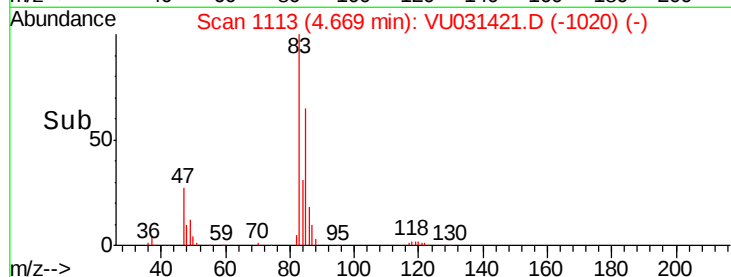
100000

50000

0

4.60 4.65 4.70 4.75

Time-->



#27

1,2-Dichloroethane

Concen: 49.399 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU031421.D

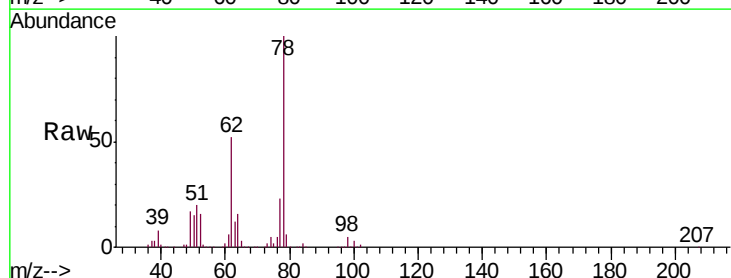
Acq: 23 Apr 2019 04:17

Tgt Ion: 62 Resp: 320951

Ion Ratio Lower Upper

62 100

98 9.7 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU031400.D (-1325) (-)

Ion 98.00 (97.70 to 98.70): VU031400.D (-1325) (-)

5.40

150000

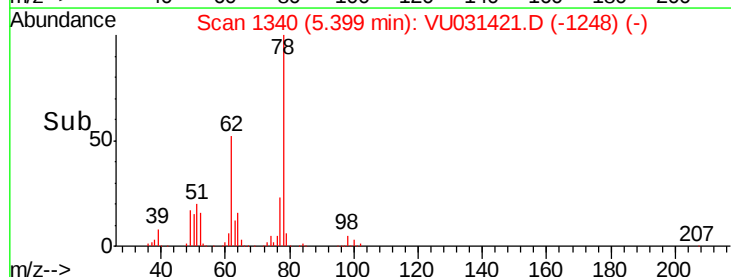
100000

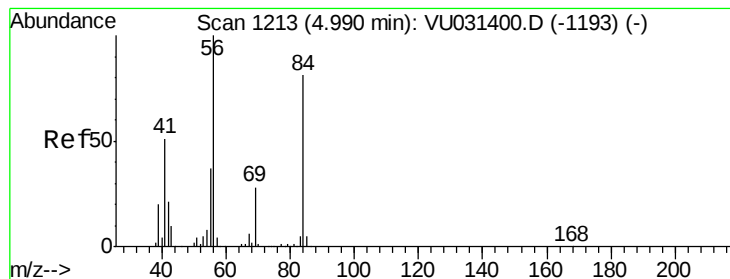
50000

0

5.30 5.35 5.40 5.45 5.50

Time-->





#29

Cyclohexane

Concen: 51.453 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

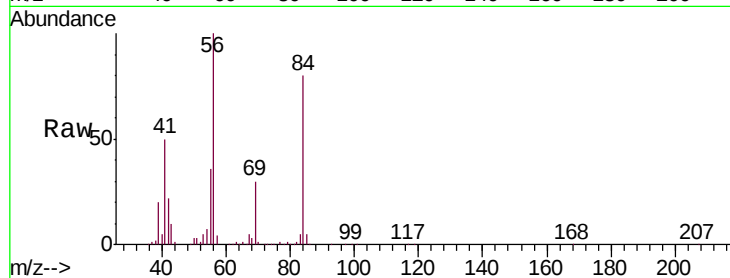
Tgt Ion: 56 Resp: 424980

Ion Ratio Lower Upper

56 100

69 29.6 23.3 34.9

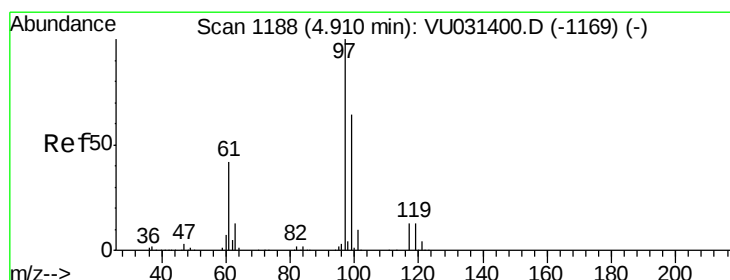
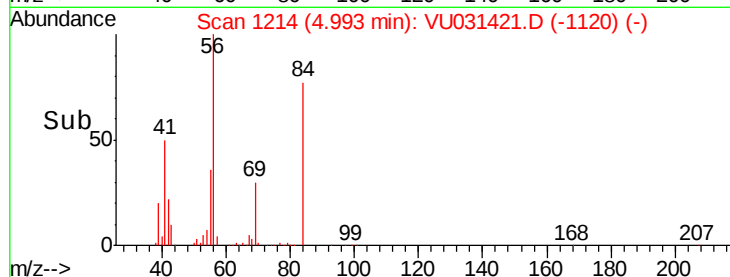
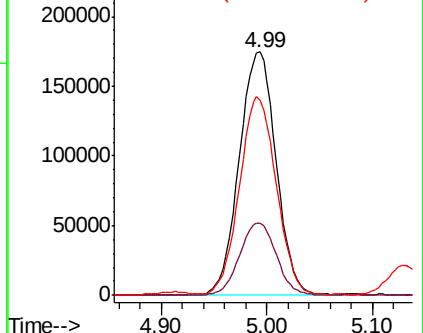
84 81.2 64.6 96.8



Abundance Ion 56.00 (55.70 to 56.70): VU031400.D (-1193) (-)

Ion 69.00 (68.70 to 69.70): VU031400.D (-1193) (-)

Ion 84.00 (83.70 to 84.70): VU031400.D (-1193) (-)



#30

1,1,1-Trichloroethane

Concen: 49.237 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

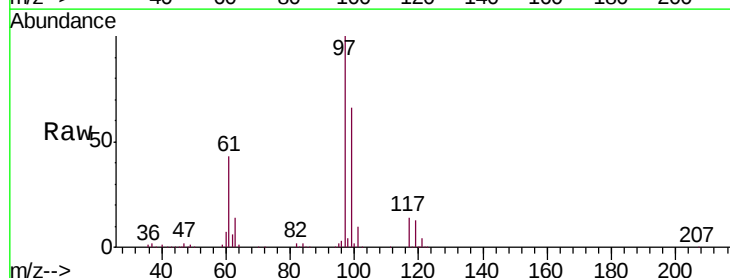
Tgt Ion: 97 Resp: 357319

Ion Ratio Lower Upper

97 100

99 65.7 52.0 78.0

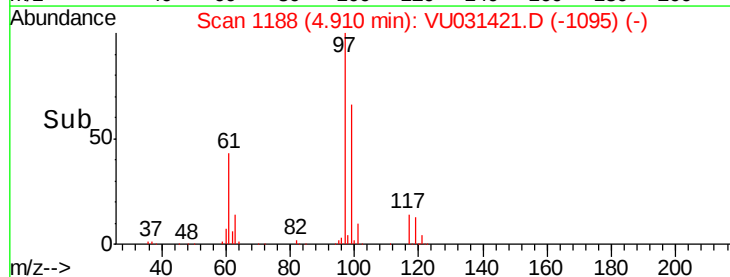
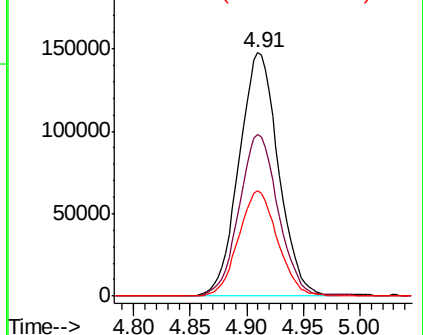
61 42.7 33.9 50.9

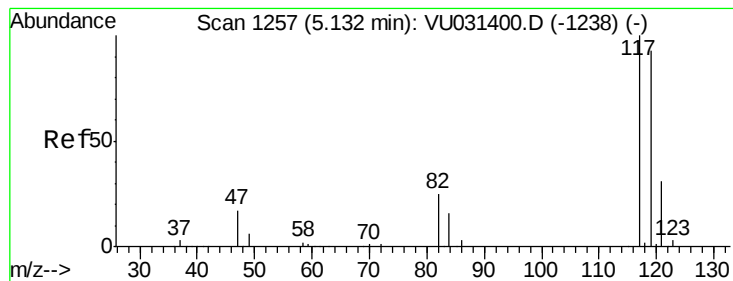


Abundance Ion 97.00 (96.70 to 97.70): VU031400.D (-1169) (-)

Ion 99.00 (98.70 to 99.70): VU031400.D (-1169) (-)

Ion 61.05 (60.75 to 61.75): VU031400.D (-1169) (-)





#31

Carbon tetrachloride

Concen: 49.831 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

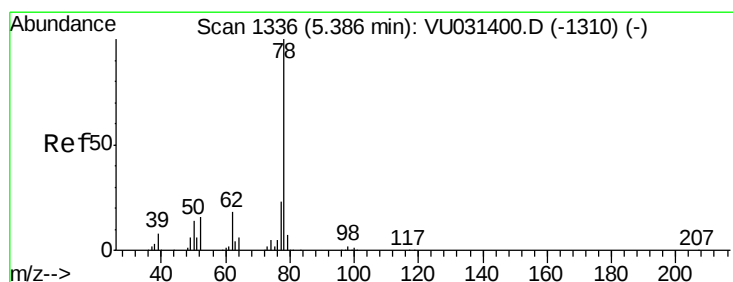
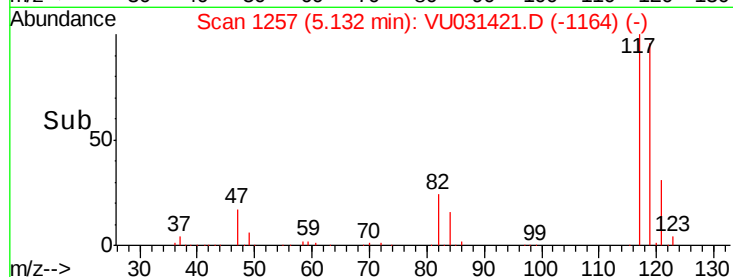
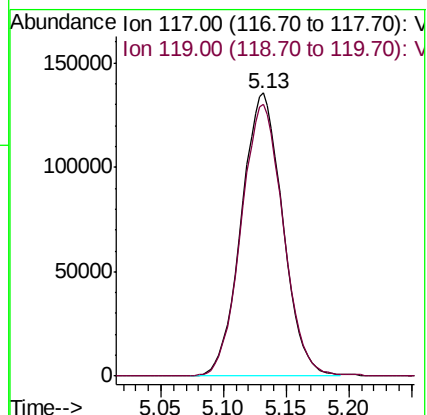
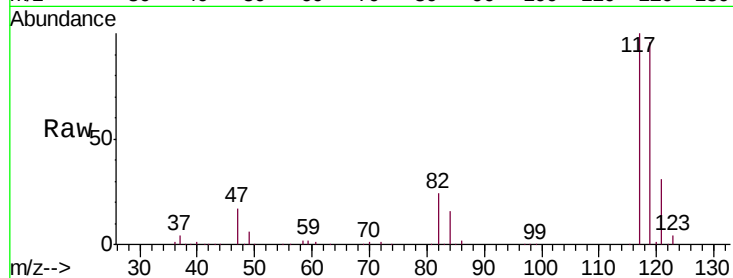
VSTD05046

Tgt Ion:117 Resp: 309607

Ion Ratio Lower Upper

117 100

119 97.8 76.2 114.4



#33

Benzene

Concen: 50.072 ug/L

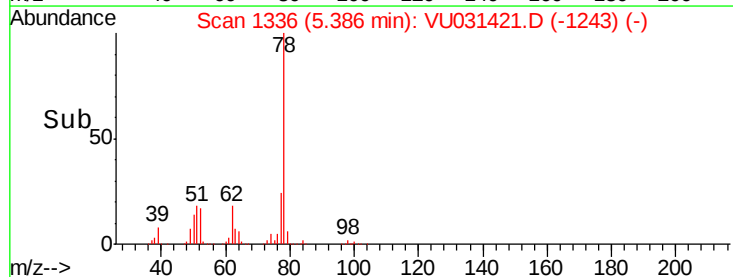
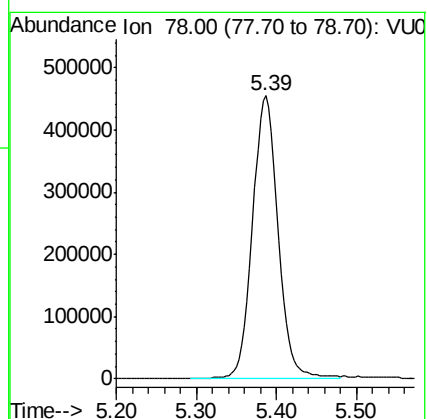
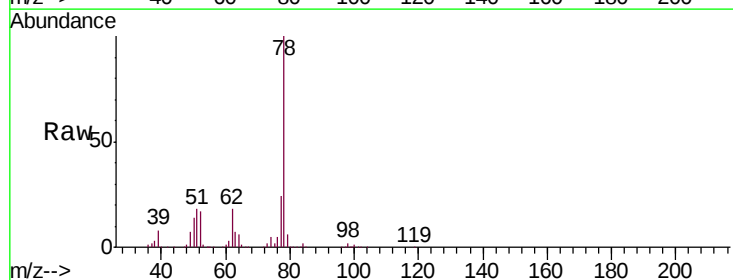
RT: 5.39 min Scan# 1336

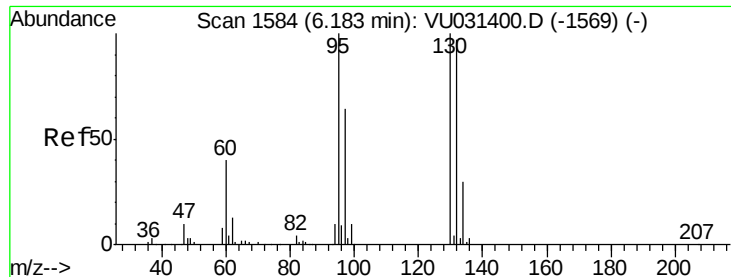
Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Tgt Ion: 78 Resp: 986358





#34

Trichloroethene

Concen: 50.948 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

Tgt Ion: 95 Resp: 265804

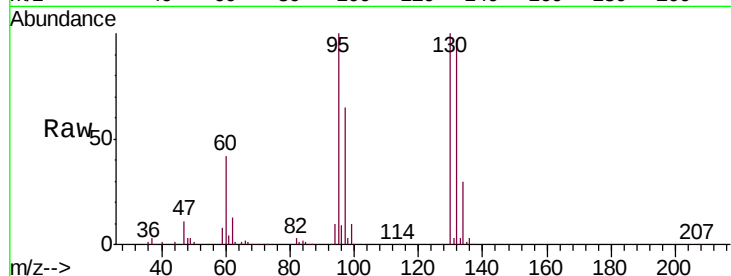
Ion Ratio Lower Upper

95 100

97 64.5 44.9 83.5

132 97.0 68.0 126.2

130 100.0 70.1 130.1



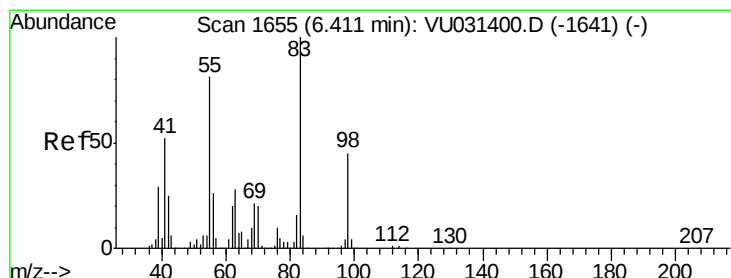
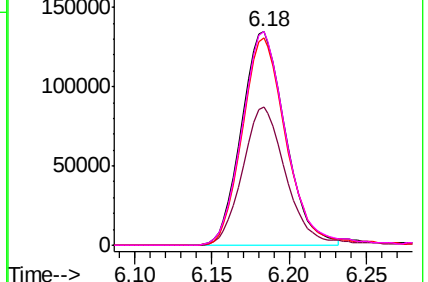
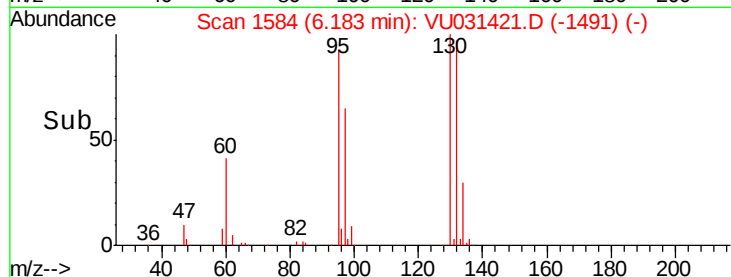
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 51.205 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

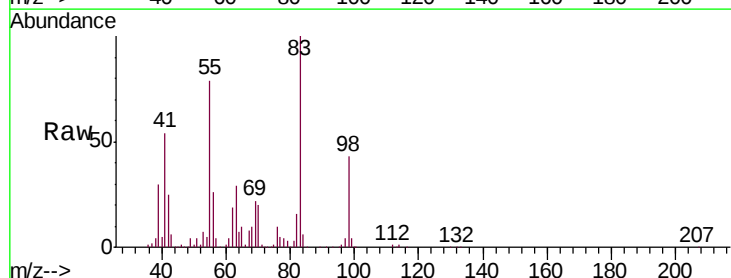
Tgt Ion: 83 Resp: 390912

Ion Ratio Lower Upper

83 100

55 78.8 65.4 98.0

98 45.6 36.8 55.2

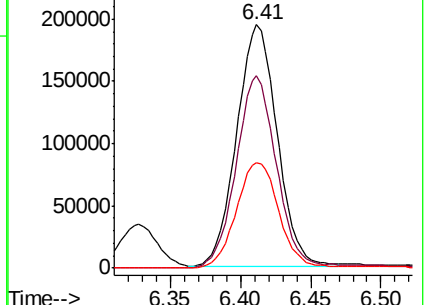
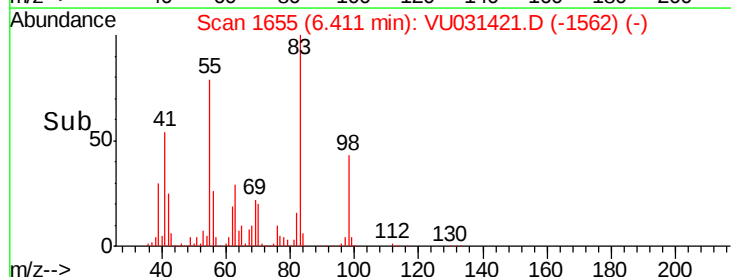


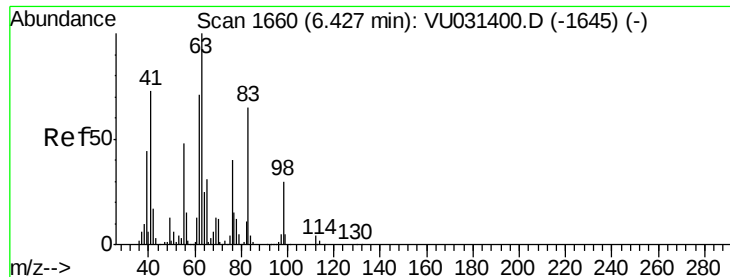
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 52.752 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

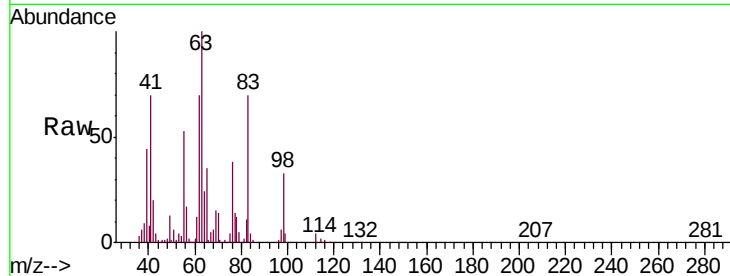
VSTD05046

Tgt Ion: 63 Resp: 276833

Ion Ratio Lower Upper

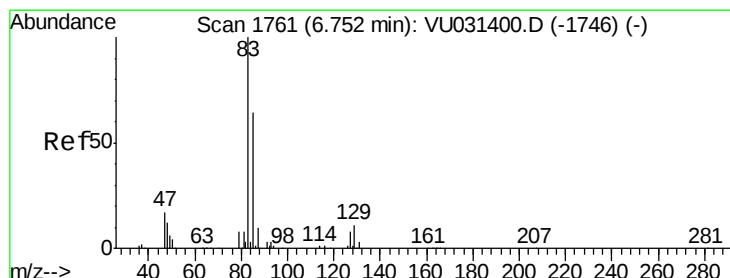
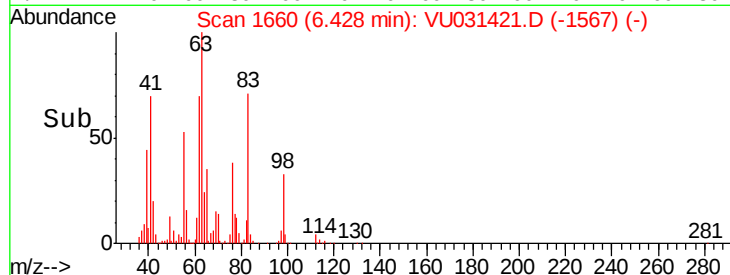
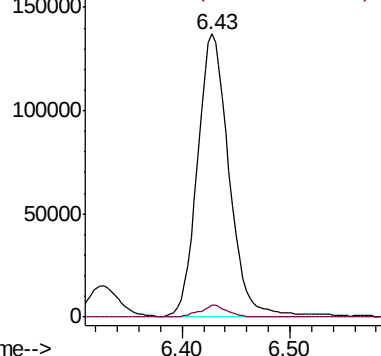
63 100

112 3.7 3.0 4.4



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 50.999 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

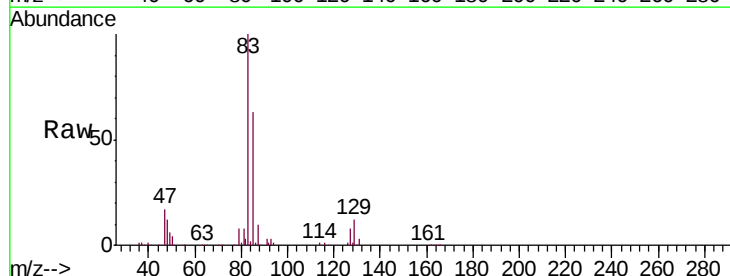
Tgt Ion: 83 Resp: 328300

Ion Ratio Lower Upper

83 100

85 63.2 45.0 83.6

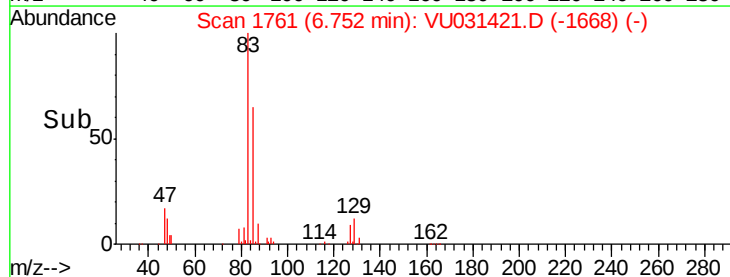
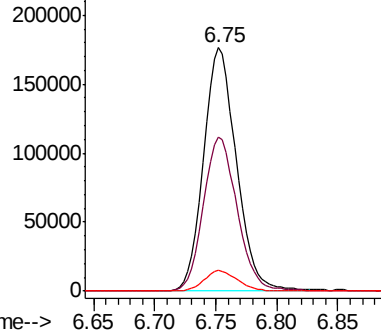
127 8.4 6.7 10.1

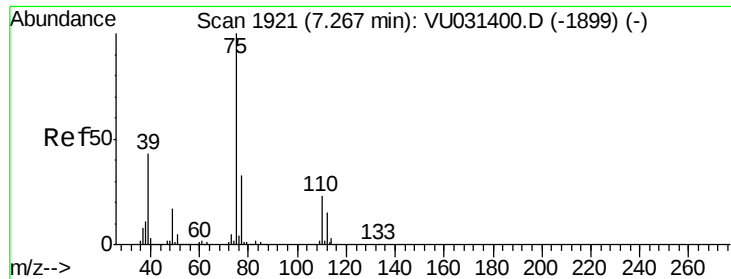


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V



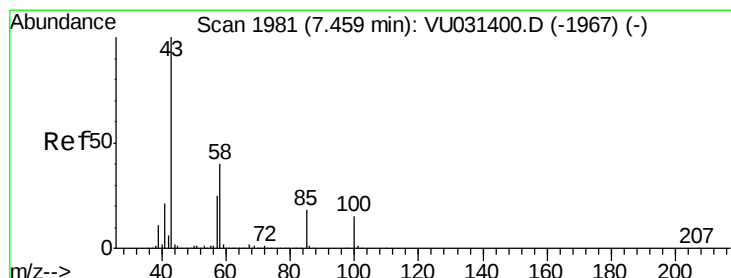
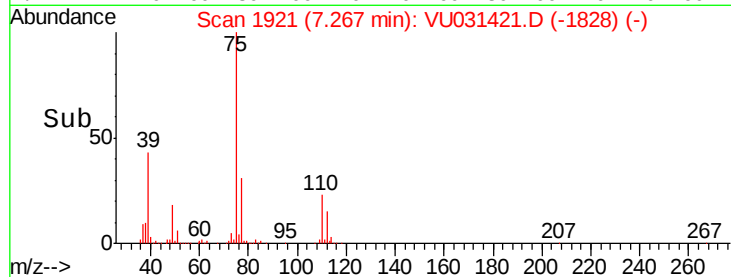
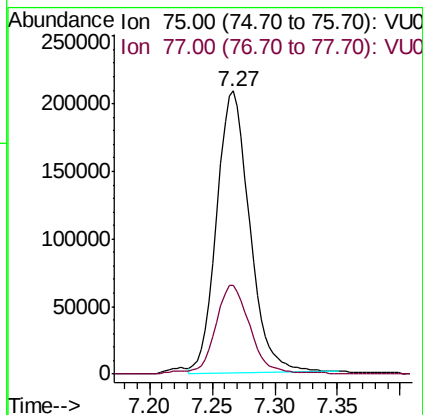
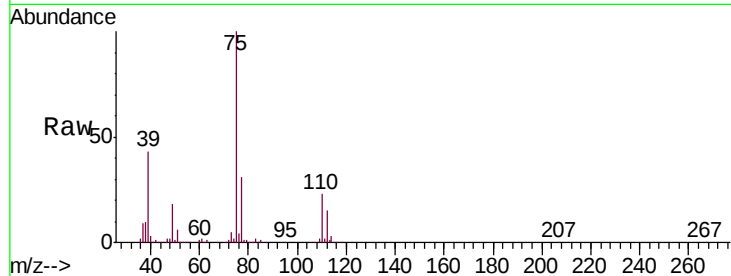


#39

cis-1,3-Dichloropropene
 Concen: 48.680 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

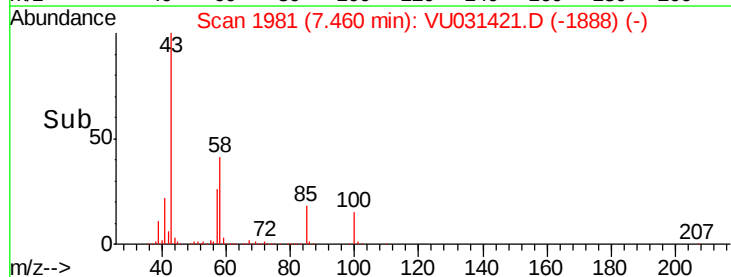
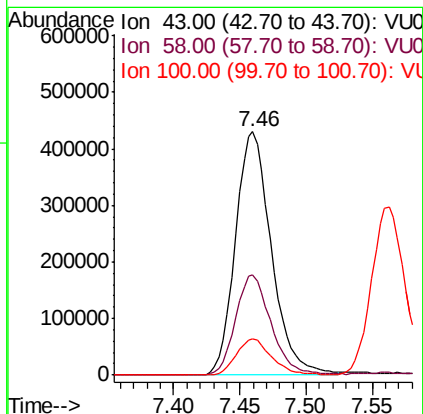
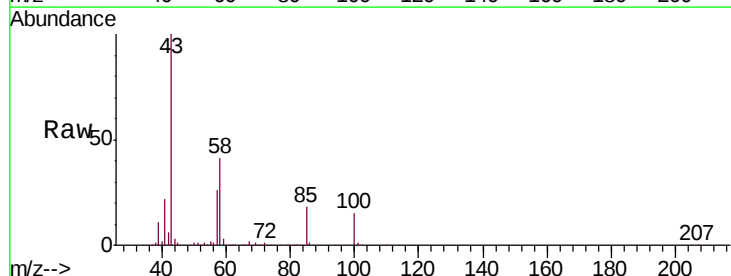
Tgt Ion: 75 Resp: 382334
 Ion Ratio Lower Upper
 75 100
 77 31.4 23.0 42.8

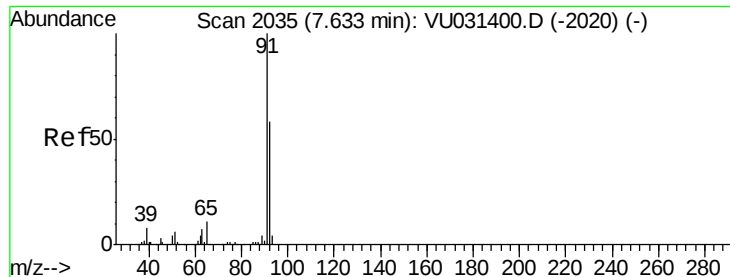


#40

4-Methyl-2-pentanone
 Concen: 101.686 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

Tgt Ion: 43 Resp: 810995
 Ion Ratio Lower Upper
 43 100
 58 40.8 32.3 48.5
 100 14.8 11.8 17.8





#42

Toluene

Concen: 50.972 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

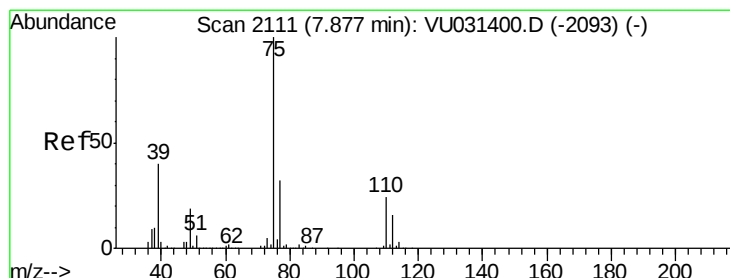
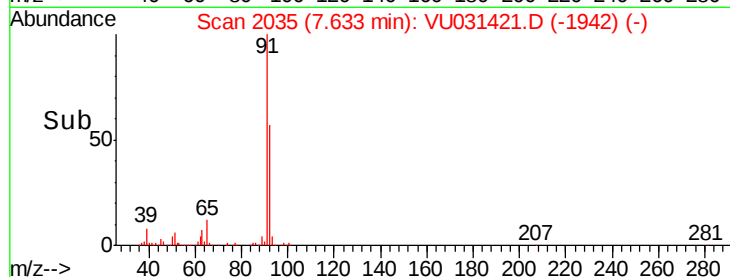
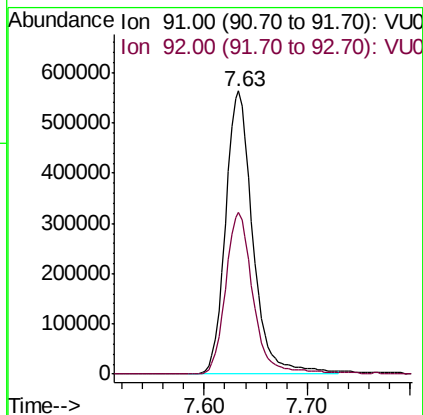
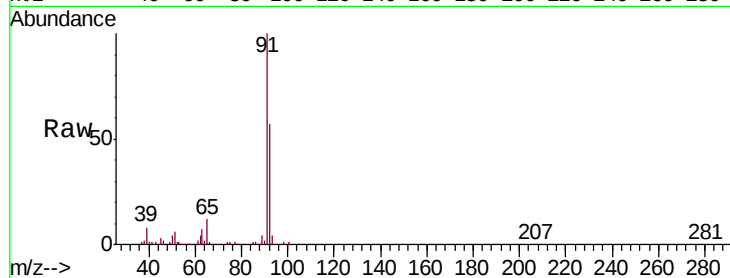
VSTD05046

Tgt Ion: 91 Resp: 1041966

Ion Ratio Lower Upper

91 100

92 57.1 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 49.624 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031421.D

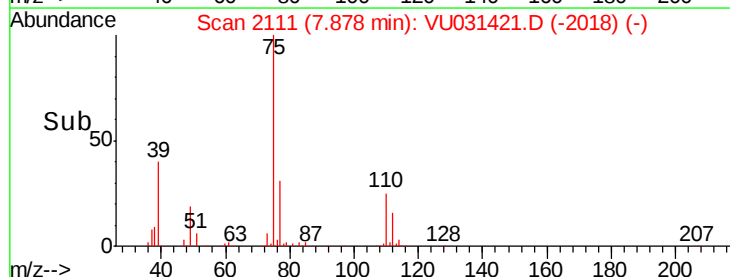
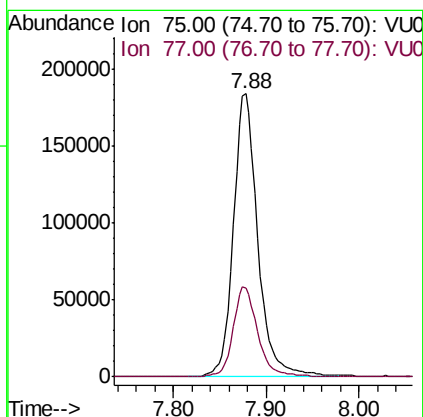
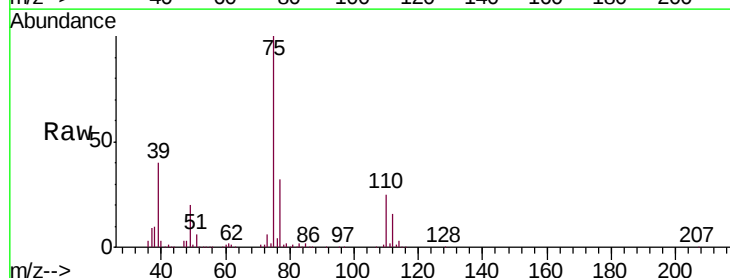
Acq: 23 Apr 2019 04:17

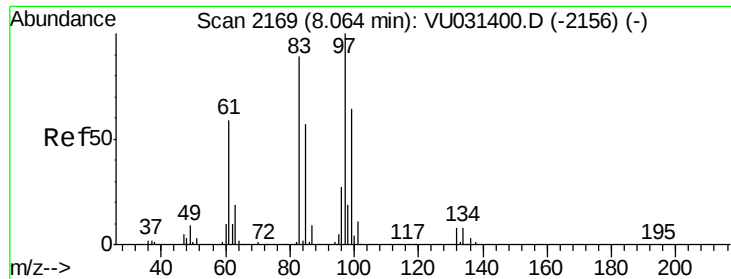
Tgt Ion: 75 Resp: 335964

Ion Ratio Lower Upper

75 100

77 31.5 22.3 41.3

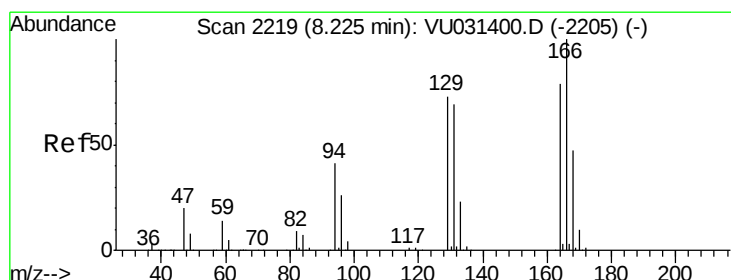
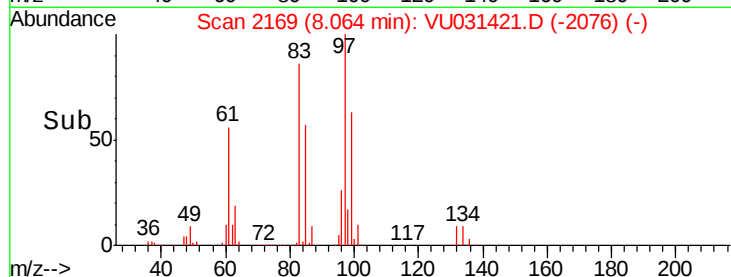
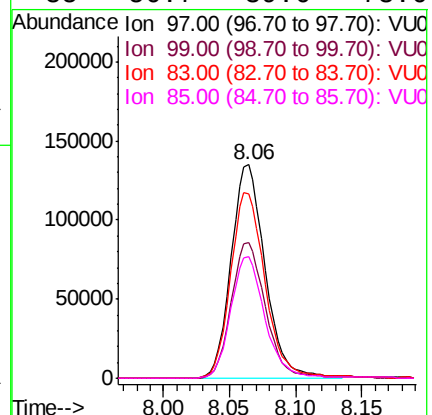
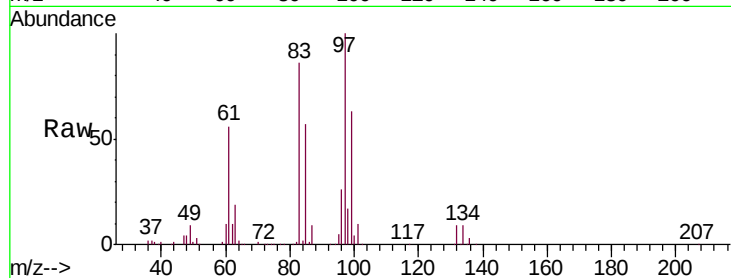




#45
 1,1,2-Trichloroethane
 Concen: 50.075 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

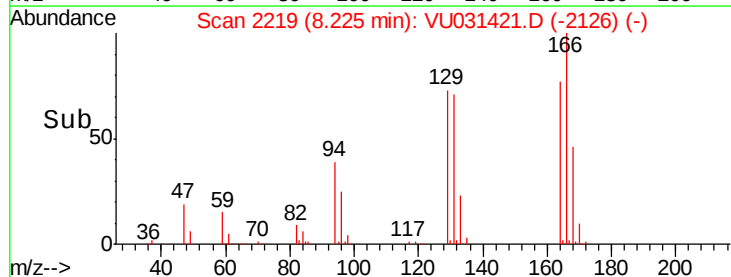
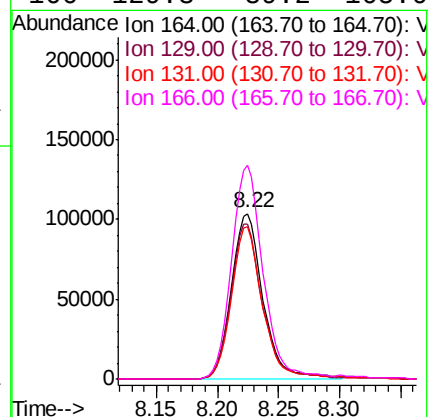
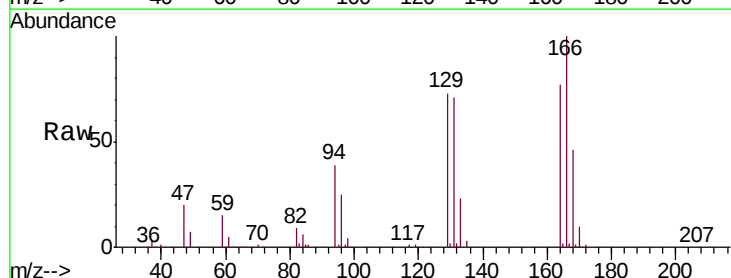
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

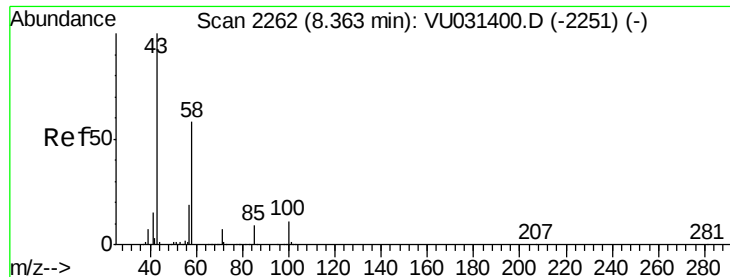
Tgt Ion:	97	Resp:	241355
Ion	Ratio	Lower	Upper
97	100		
99	63.4	44.9	83.3
83	86.3	62.5	116.1
85	56.7	39.6	73.6



#46
 Tetrachloroethene
 Concen: 50.932 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

Tgt Ion:	164	Resp:	188456
Ion	Ratio	Lower	Upper
164	100		
129	93.9	65.2	121.0
131	91.9	61.4	114.0
166	129.3	89.2	165.6

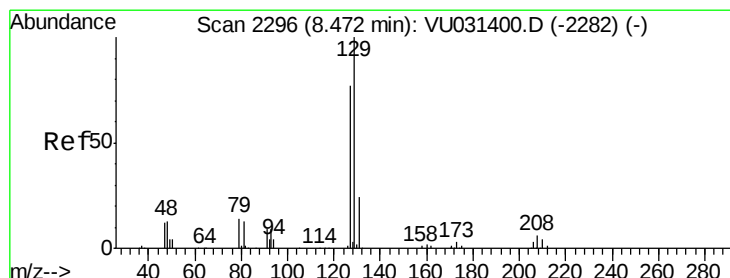
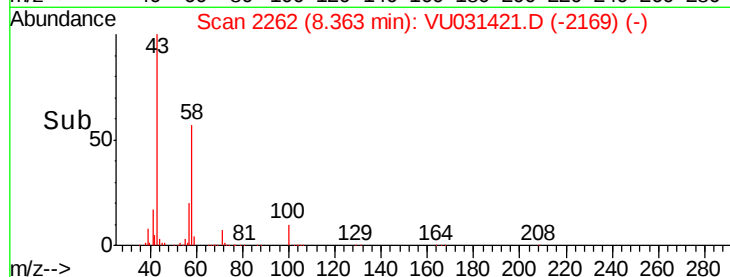
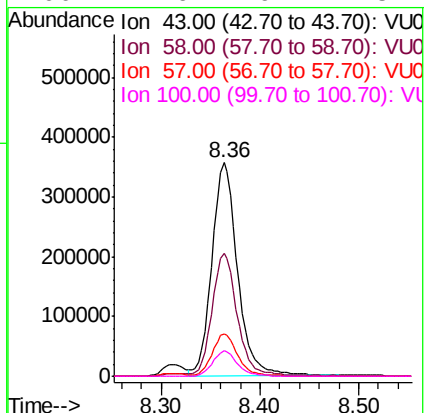
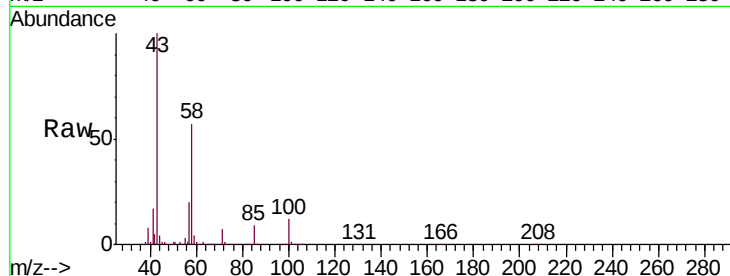




#48
2-Hexanone
Concen: 103.863 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU031421.D
Acq: 23 Apr 2019 04:17

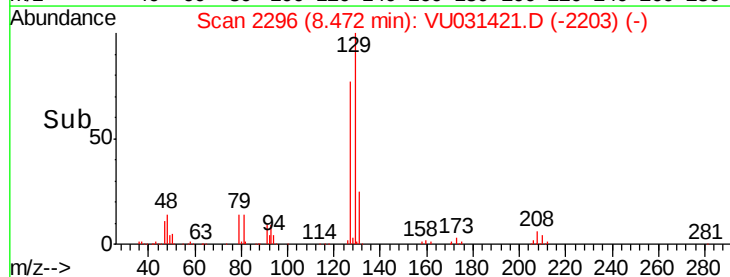
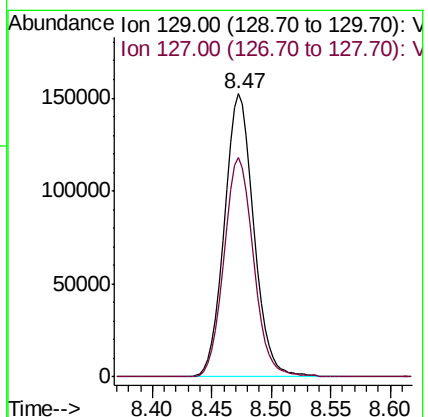
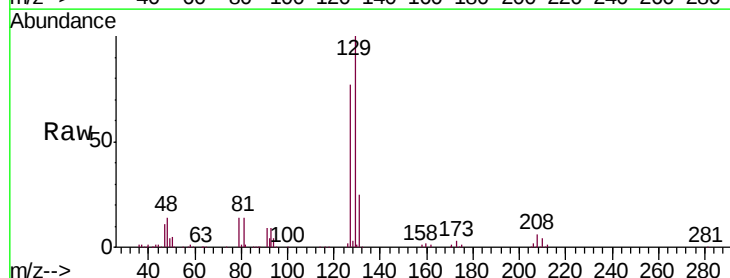
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

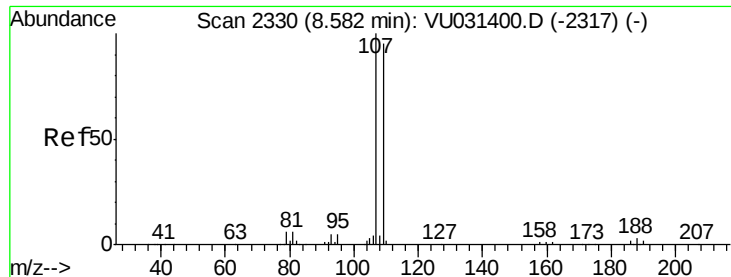
Tgt Ion: 43 Resp: 646179
Ion Ratio Lower Upper
43 100
58 56.4 45.5 68.3
57 19.3 15.2 22.8
100 11.6 9.1 13.7



#49
Dibromochloromethane
Concen: 51.137 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031421.D
Acq: 23 Apr 2019 04:17

Tgt Ion: 129 Resp: 261500
Ion Ratio Lower Upper
129 100
127 77.4 54.2 100.6





#50

1,2-Dibromoethane

Concen: 52.581 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

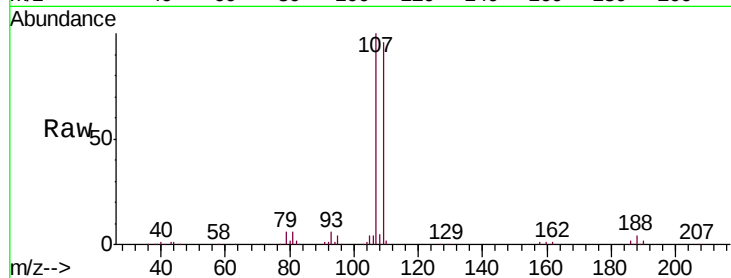
Tgt Ion:107 Resp: 266558

Ion Ratio Lower Upper

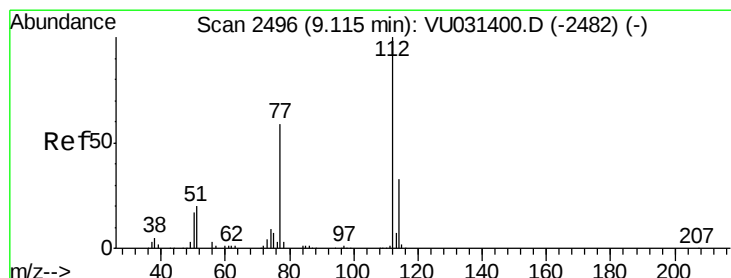
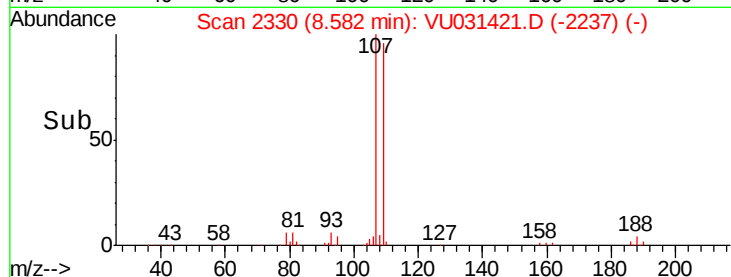
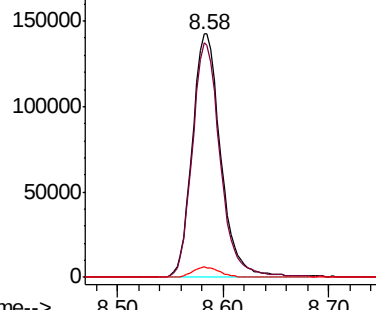
107 100

109 96.2 66.6 123.8

188 4.2 2.6 4.0#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 50.128 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

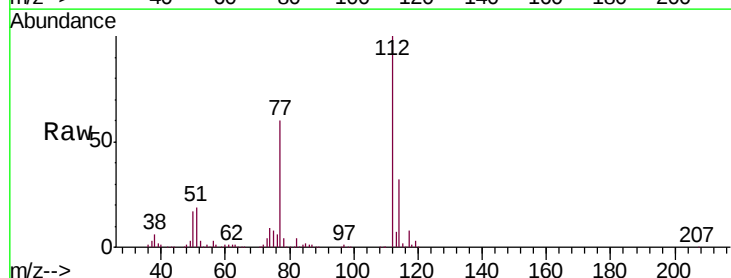
Tgt Ion:112 Resp: 635937

Ion Ratio Lower Upper

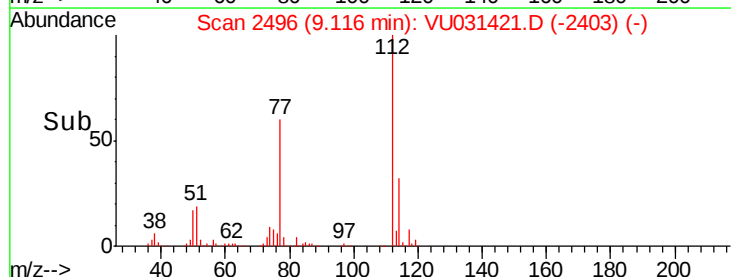
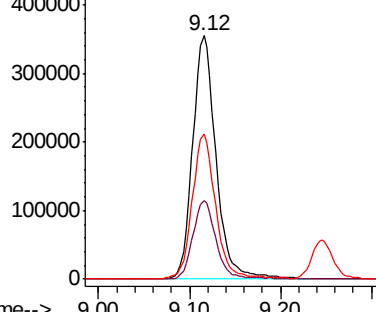
112 100

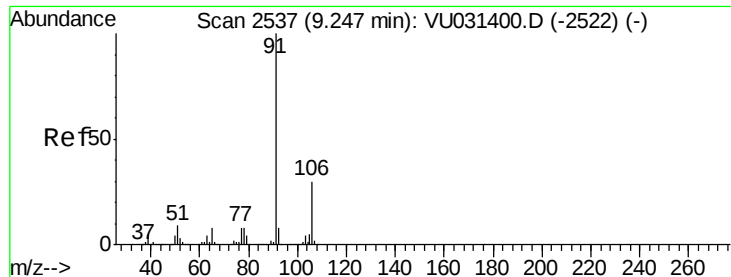
114 32.1 23.0 42.8

77 59.5 47.1 70.7



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 51.108 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

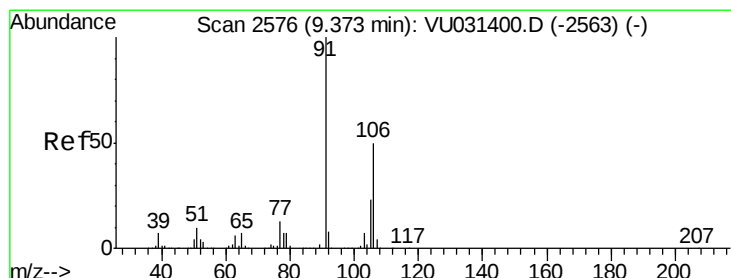
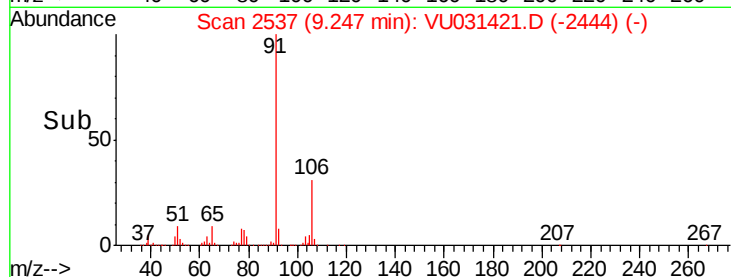
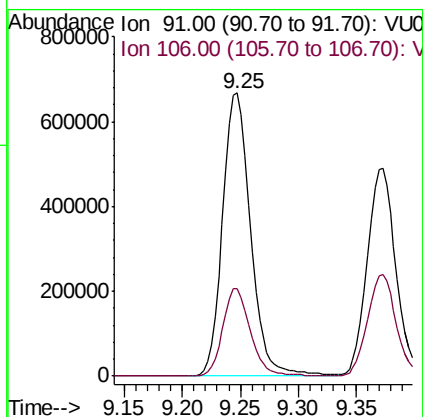
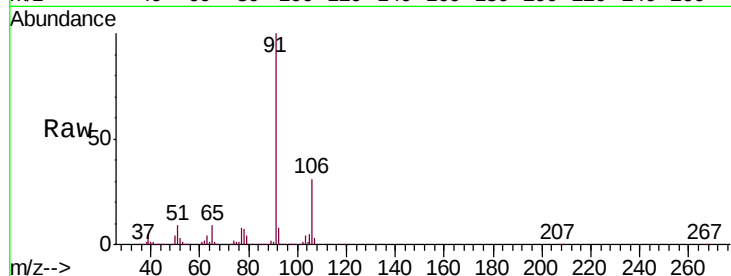
VSTD05046

Tgt Ion: 91 Resp: 1119260

Ion Ratio Lower Upper

91 100

106 30.8 21.3 39.5



#53

m,p-Xylene

Concen: 51.979 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031421.D

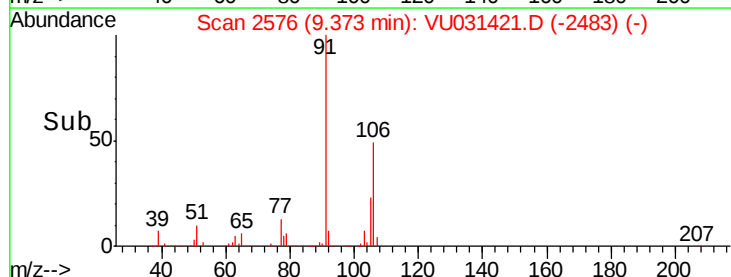
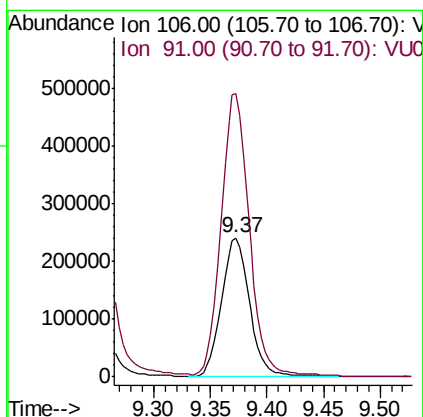
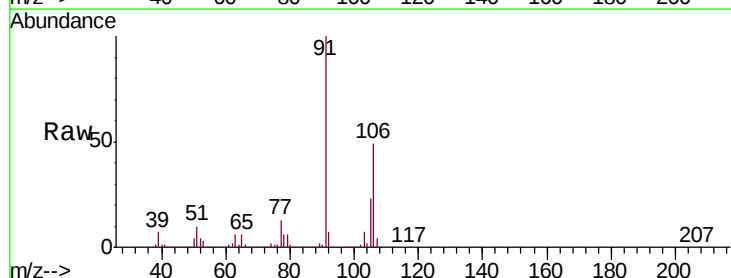
Acq: 23 Apr 2019 04:17

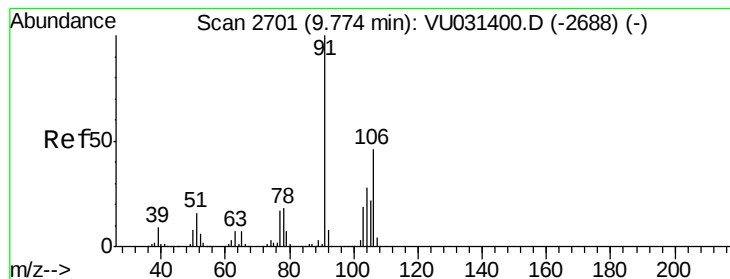
Tgt Ion: 106 Resp: 415464

Ion Ratio Lower Upper

106 100

91 203.4 141.5 262.7





#54

o-xylene

Concen: 51.748 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

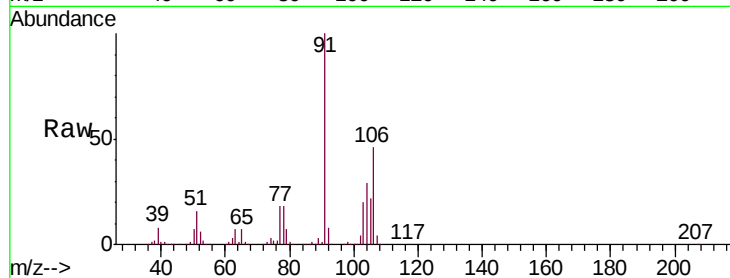
VSTD05046

Tgt Ion:106 Resp: 415849

Ion Ratio Lower Upper

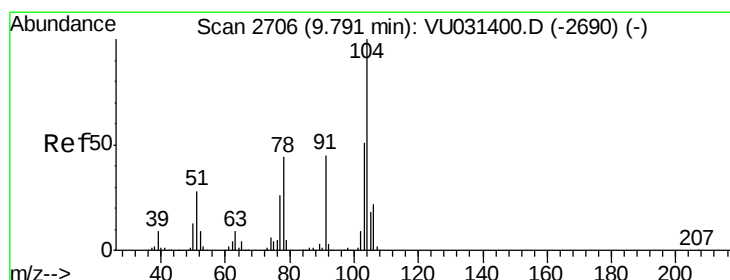
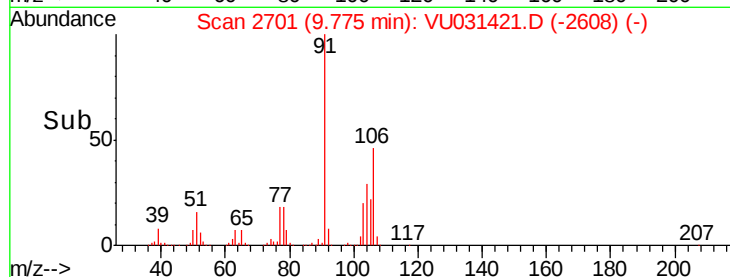
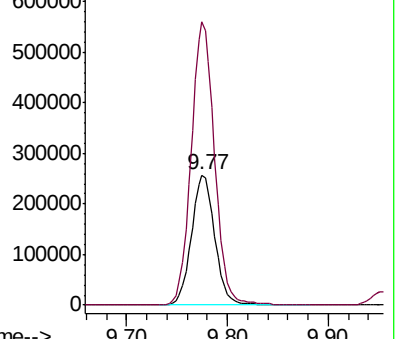
106 100

91 217.5 152.4 283.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.536 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031421.D

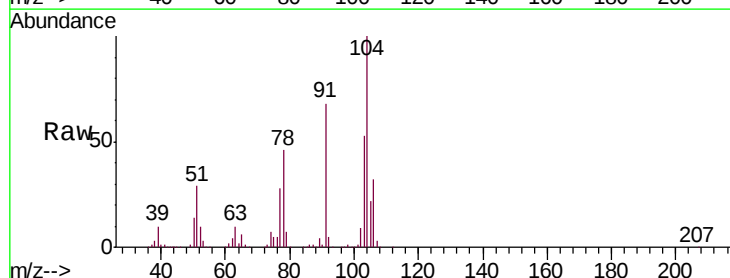
Acq: 23 Apr 2019 04:17

Tgt Ion:104 Resp: 702131

Ion Ratio Lower Upper

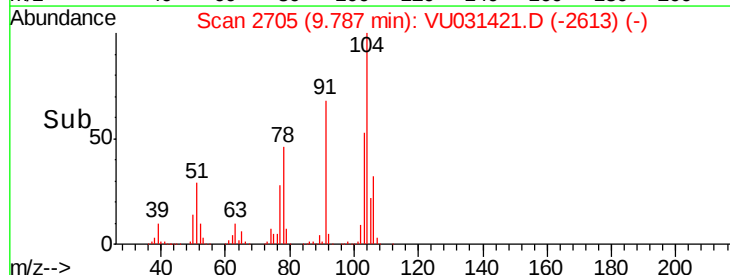
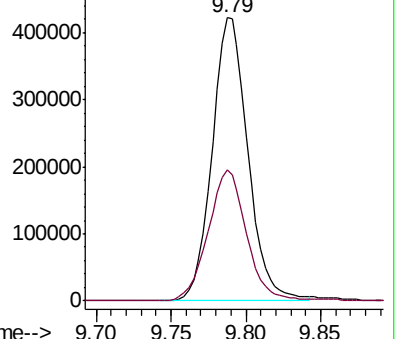
104 100

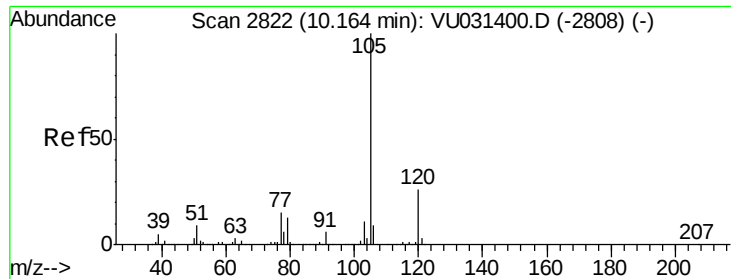
78 46.1 31.1 57.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.830 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

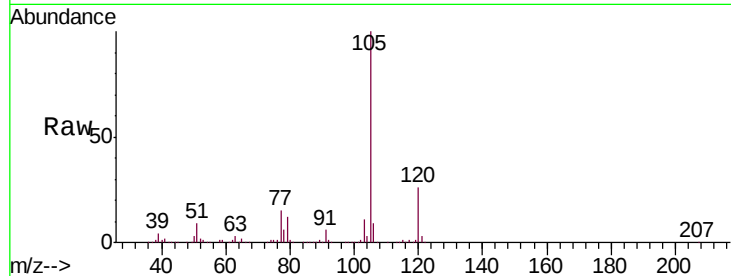
Tgt Ion:105 Resp: 1090687

Ion Ratio Lower Upper

105 100

120 25.5 20.7 31.1

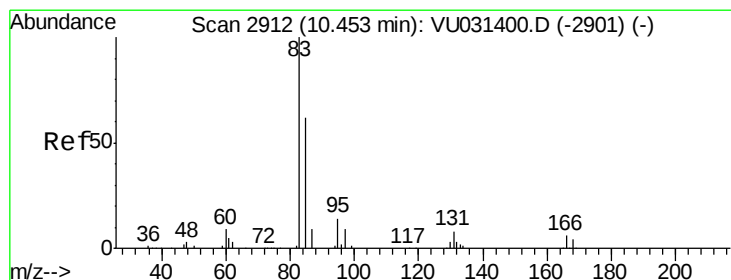
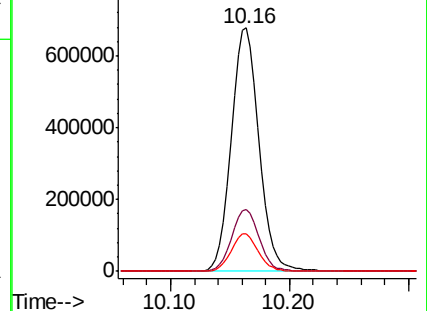
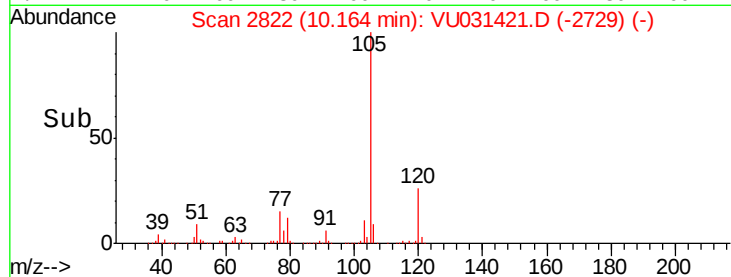
77 15.2 12.2 18.2



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: 49.910 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

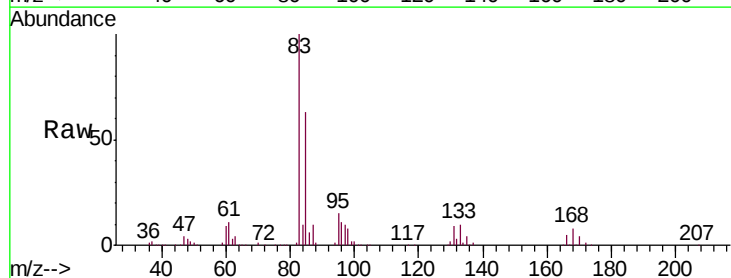
Tgt Ion: 83 Resp: 415328

Ion Ratio Lower Upper

83 100

85 63.5 44.5 82.7

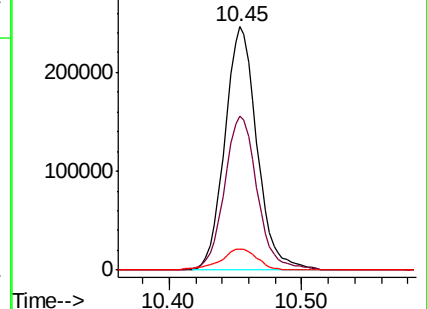
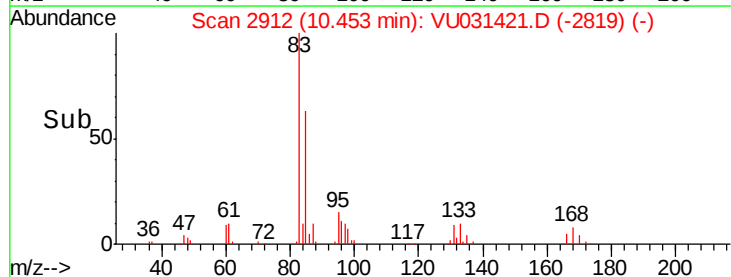
131 8.8 7.0 10.6

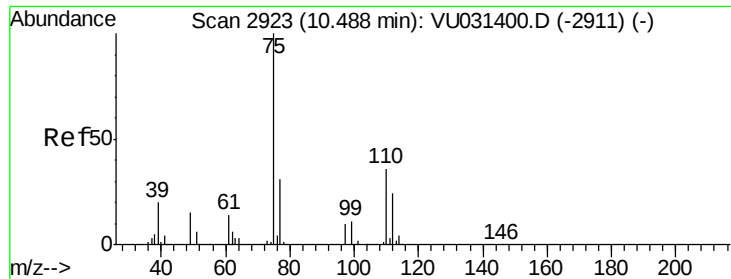


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.225 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

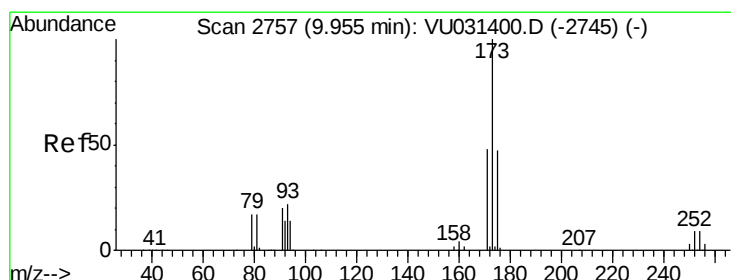
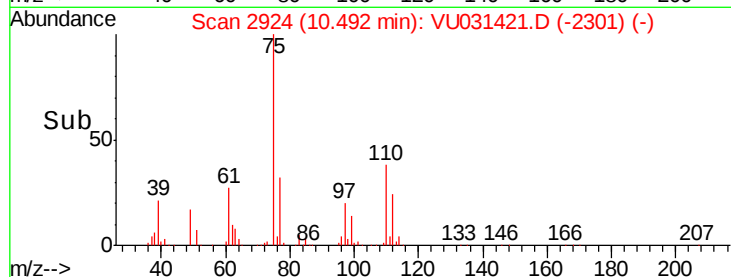
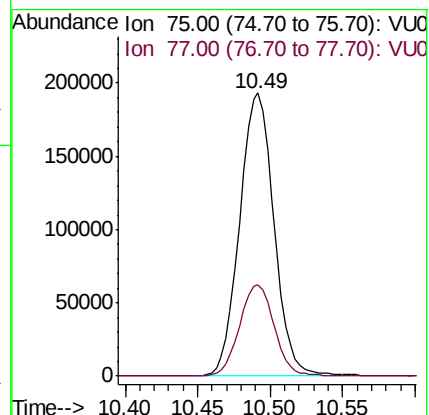
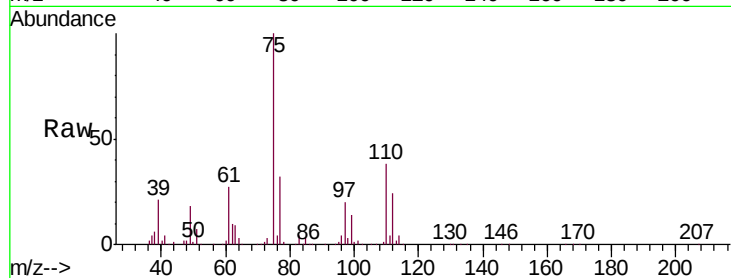
VSTD05046

Tgt Ion: 75 Resp: 318820

Ion Ratio Lower Upper

75 100

77 32.7 25.6 38.4



#61

Bromoform

Concen: 51.067 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

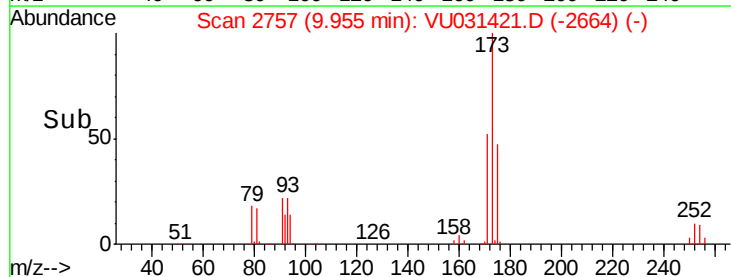
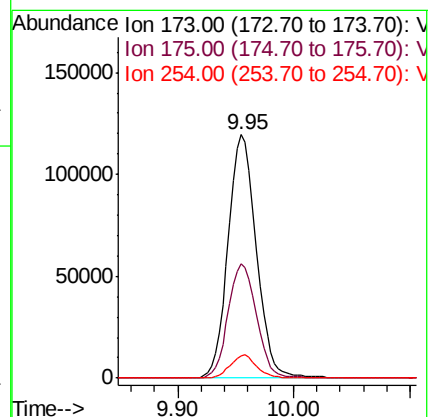
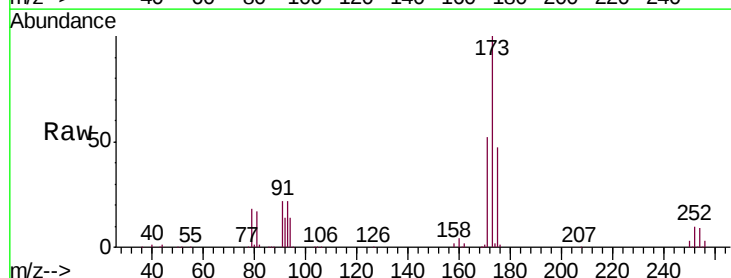
Tgt Ion: 173 Resp: 201199

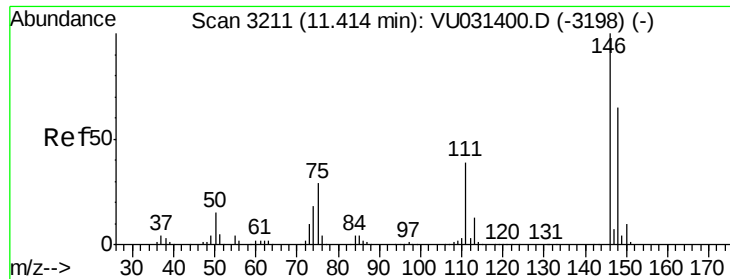
Ion Ratio Lower Upper

173 100

175 47.2 38.6 57.8

254 9.0 7.7 11.5

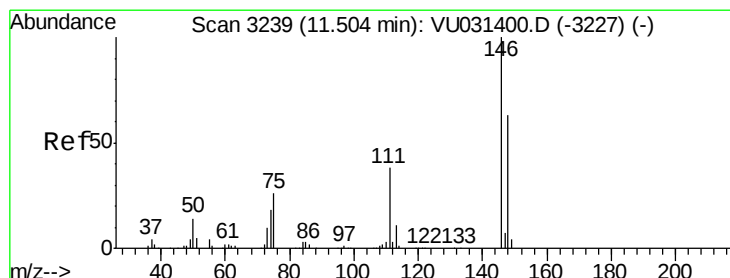
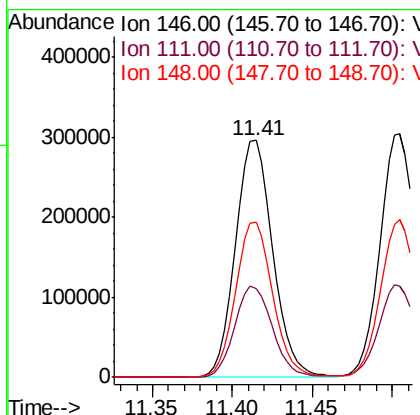
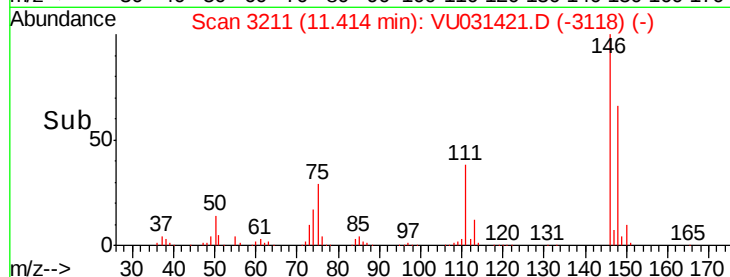
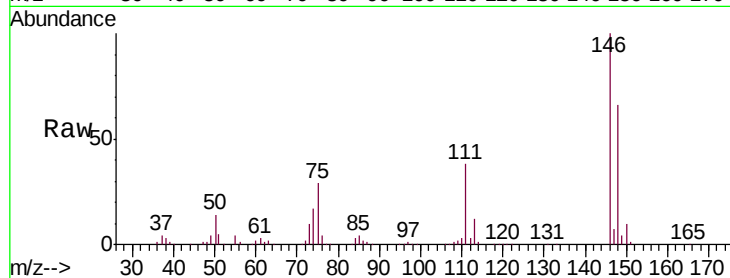




#62
 1,3-Dichlorobenzene
 Concen: 50.157 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

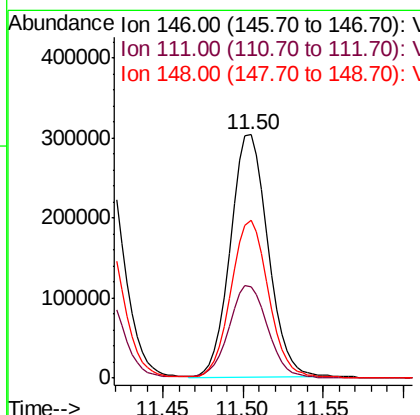
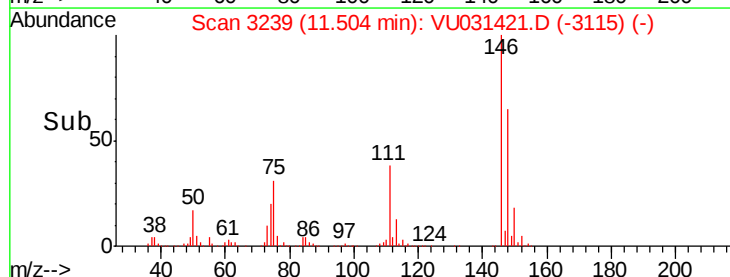
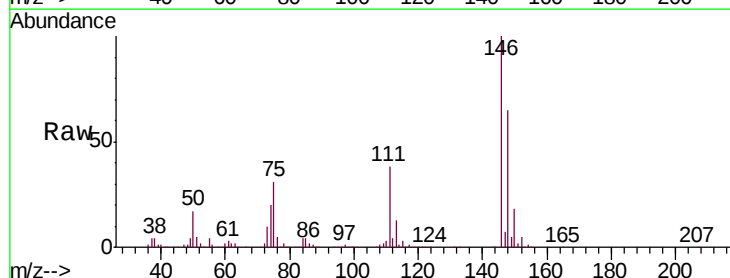
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

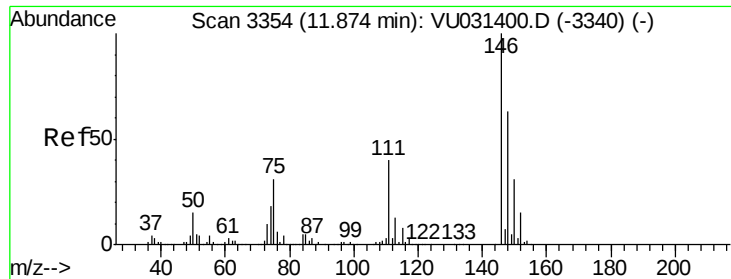
Tgt Ion:146 Resp: 470671
 Ion Ratio Lower Upper
 146 100
 111 37.7 27.4 50.8
 148 65.5 45.4 84.4



#63
 1,4-Dichlorobenzene
 Concen: 51.595 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

Tgt Ion:146 Resp: 482990
 Ion Ratio Lower Upper
 146 100
 111 37.5 26.6 49.4
 148 64.8 44.4 82.5

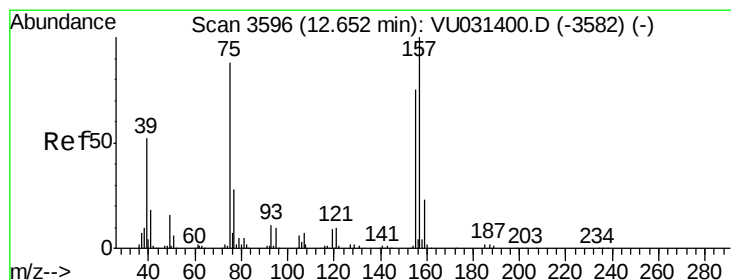
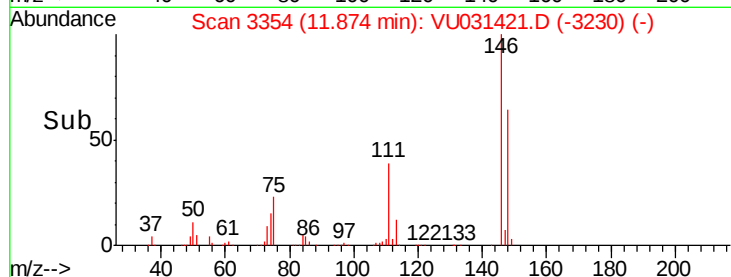
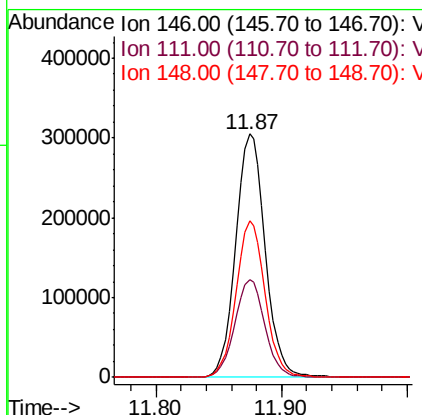
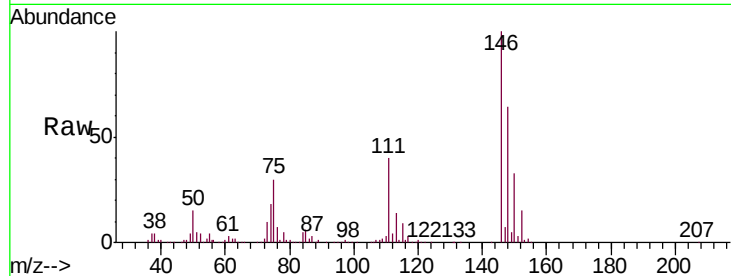




#65
 1,2-Dichlorobenzene
 Concen: 51.767 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

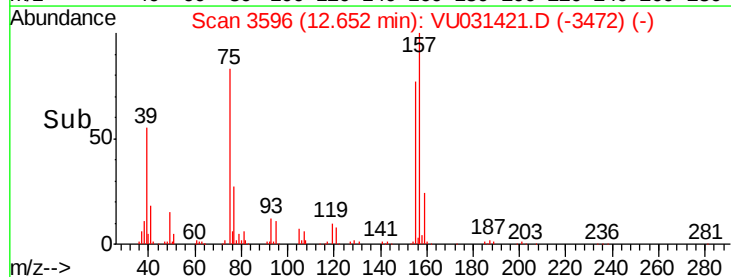
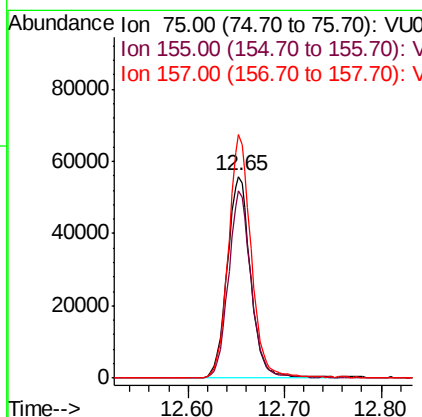
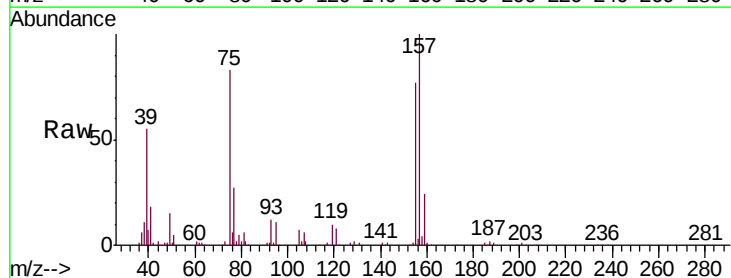
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

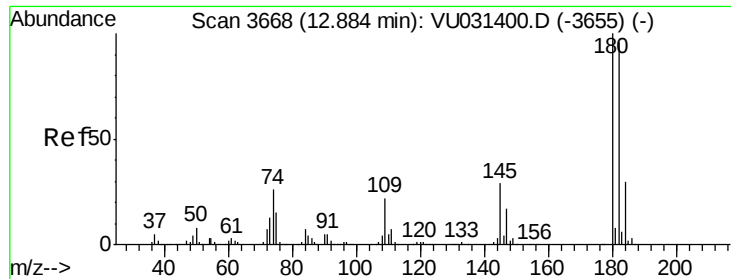
Tgt Ion: 146 Resp: 496598
 Ion Ratio Lower Upper
 146 100
 111 40.3 32.4 48.6
 148 64.1 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 53.029 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

Tgt Ion: 75 Resp: 94075
 Ion Ratio Lower Upper
 75 100
 155 92.8 68.8 103.2
 157 120.5 91.4 137.2

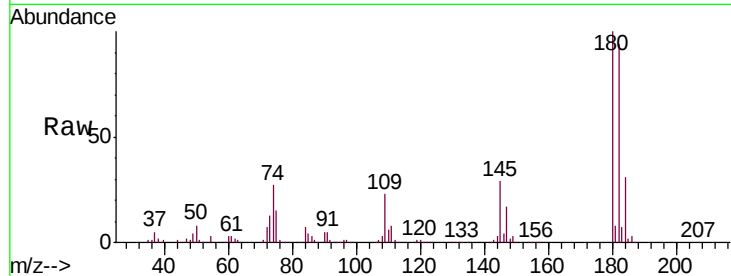




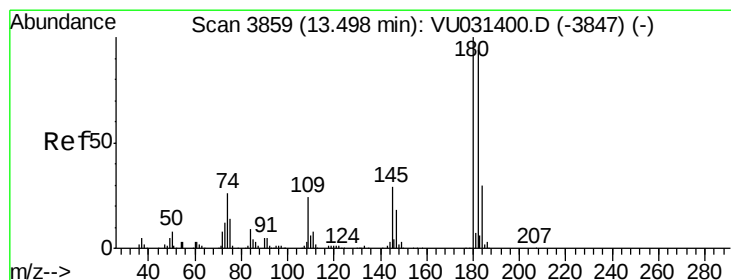
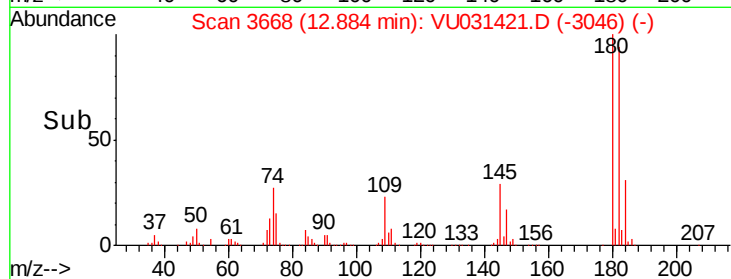
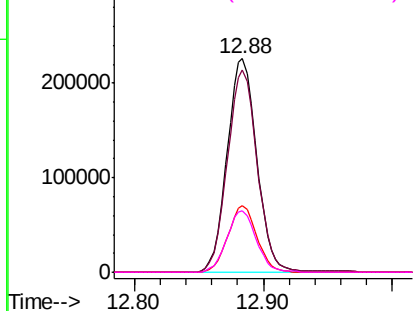
#67
 1,3,5-Trichlorobenzene
 Concen: 52.190 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:	180	Resp:	360940
Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.5	114.7
184	30.4	23.7	35.5
145	28.6	22.9	34.3

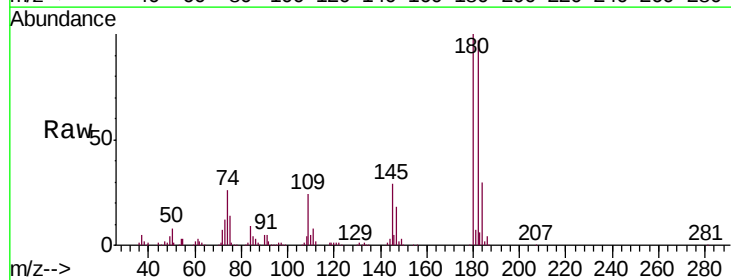


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

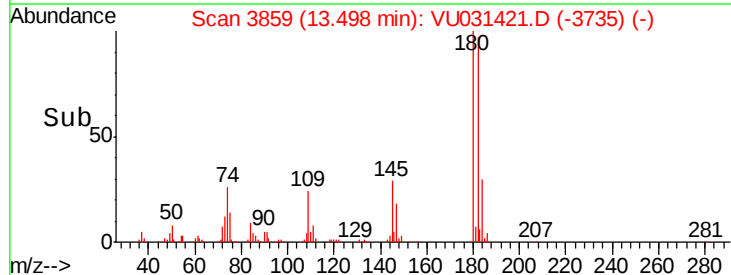
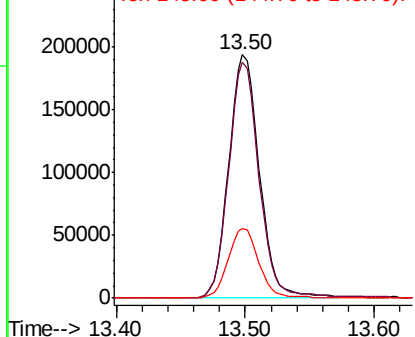


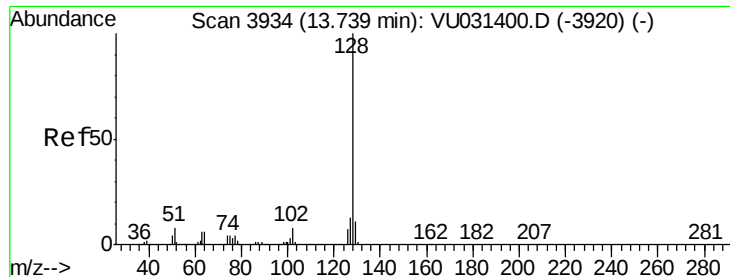
#68
 1,2,4-trichlorobenzene
 Concen: 57.586 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031421.D
 Acq: 23 Apr 2019 04:17

Tgt Ion:	180	Resp:	320161
Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.5	116.3
145	28.5	23.3	34.9



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: 58.317 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

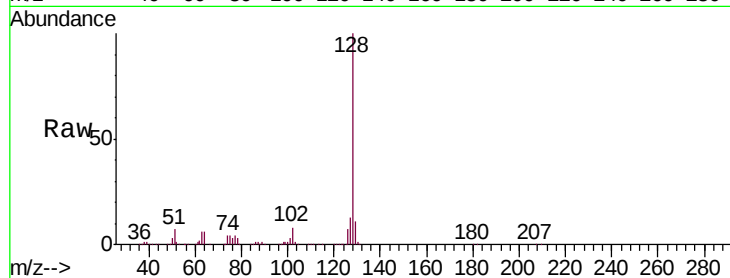
Tgt Ion:128 Resp: 1127154

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

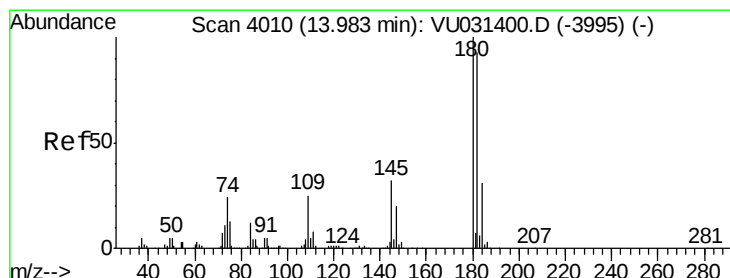
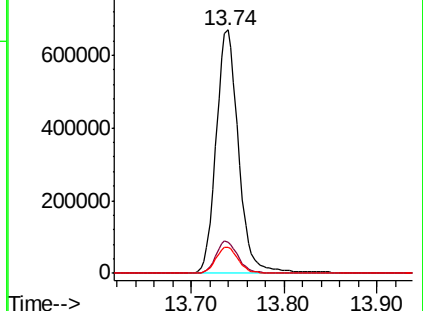
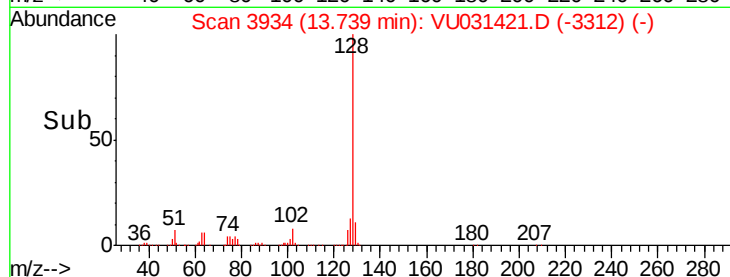
129 10.8 8.6 13.0



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: 54.994 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031421.D

Acq: 23 Apr 2019 04:17

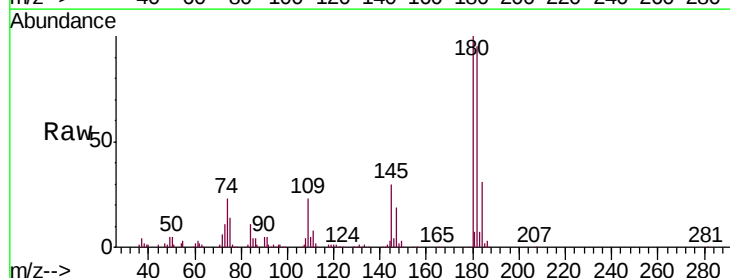
Tgt Ion:180 Resp: 329213

Ion Ratio Lower Upper

180 100

182 94.6 75.8 113.8

145 30.5 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

