

Data File : VU030216.D
Acq On : 20 Mar 2019 08:53
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Quant Time: Mar 22 01:00:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 20 02:58:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	561477	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	536850	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	275667	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	167081	44.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.02%
7) Chloroethane-d5	1.68	69	138259	45.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.08%
11) 1,1-Dichloroethene-d2	2.27	63	310075	44.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.54%
21) 2-Butanone-d5	4.17	46	265765	94.36	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.36%
24) Chloroform-d	4.64	84	323359	46.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.82%
26) 1,2-Dichloroethane-d4	5.31	65	184283	46.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.74%
32) Benzene-d6	5.34	84	668331	47.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.48%
36) 1,2-Dichloropropane-d6	6.33	67	210380	48.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.12%
41) Toluene-d8	7.56	98	631399	47.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.94%
43) trans-1,3-Dichloropropene-	7.85	79	103264	48.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.90%
47) 2-Hexanone-d5	8.31	63	223351	98.39	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.39%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	320256	47.70	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.40%
64) 1,2-Dichlorobenzene-d4	11.85	152	261039	47.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.34%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	224073	47.136	ug/L	100
3) Chloromethane	1.33	50	218547	47.495	ug/L	99
5) Vinyl chloride	1.40	62	232200	47.537	ug/L	100
6) Bromomethane	1.62	94	132232	50.023	ug/L	99
8) Chloroethane	1.70	64	135966	47.080	ug/L	100
9) Trichlorofluoromethane	1.88	101	297244	47.918	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	180287	47.796	ug/L	98
12) 1,1-Dichloroethene	2.28	96	172767	46.121	ug/L	96
13) Acetone	2.32	43	314859	106.980	ug/L	100
14) Carbon disulfide	2.48	76	515387	46.065	ug/L	99
15) Methyl Acetate	2.61	43	196056	45.808	ug/L	98
16) Methylene chloride	2.70	84	197237	46.426	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	184169	46.653	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	536993	47.288	ug/L	100
19) 1,1-Dichloroethane	3.44	63	323707	47.674	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	207997	48.090	ug/L	99
22) 2-Butanone	4.26	43	351024	101.479	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	110194	47.602	ug/L	98
25) Chloroform	4.67	83	332172	46.957	ug/L	97
27) 1,2-Dichloroethane	5.40	62	236553	47.179	ug/L	99
29) Cyclohexane	4.99	56	290509	49.803	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	282310	48.794	ug/L	99
31) Carbon tetrachloride	5.13	117	247702	48.360	ug/L	100
33) Benzene	5.39	78	764204	49.339	ug/L	100
34) Trichloroethene	6.18	95	197533	48.386	ug/L	98
35) Methylcyclohexane	6.41	83	317326	49.570	ug/L	98
37) 1,2-Dichloropropane	6.43	63	197068	49.679	ug/L	100
38) Bromodichloromethane	6.75	83	248500	48.723	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	313524	49.262	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	518610	95.127	ug/L	99
42) Toluene	7.63	91	842357	49.966	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	273922	49.739	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	196344	48.219	ug/L	99
46) Tetrachloroethene	8.22	164	171486	49.717	ug/L	99
48) 2-Hexanone	8.36	43	448722	99.167	ug/L	99
49) Dibromochloromethane	8.47	129	222507	48.730	ug/L	100
50) 1,2-Dibromoethane	8.58	107	216717	48.005	ug/L	98
51) Chlorobenzene	9.12	112	538153	48.249	ug/L	100
52) Ethylbenzene	9.25	91	901310	49.229	ug/L	100
53) m,p-Xylene	9.37	106	353304	50.088	ug/L	98
54) o-xylene	9.77	106	344083	49.623	ug/L	100
55) Styrene	9.79	104	598561	50.949	ug/L	100
56) Isopropylbenzene	10.16	105	898824	50.138	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	331843	47.793	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	249779	46.589	ug/L	100
61) Bromoform	9.95	173	173071	48.617	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	427014	48.552	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	437238	47.928	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	433735	48.269	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	71232	47.414	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	336902	49.014	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	296380	48.759	ug/L	100
69) Naphthalene	13.74	128	882621	45.767	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	307567	48.493	ug/L	99

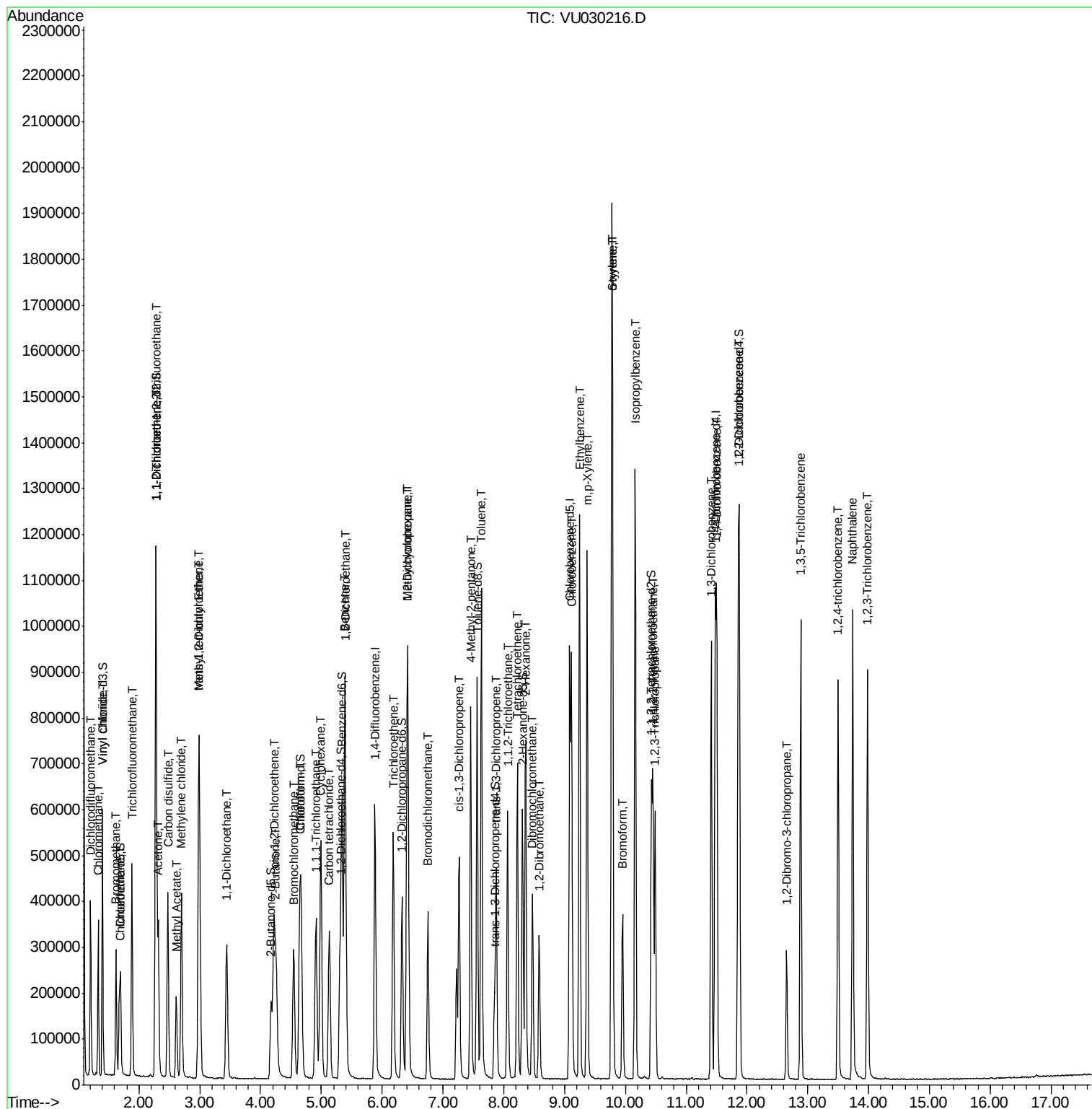
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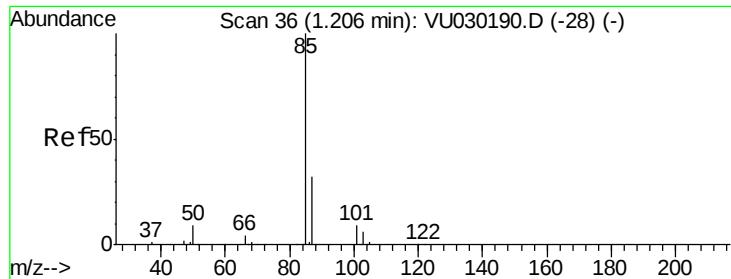
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#2

Dichlorodifluoromethane

Concen: 47.136 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

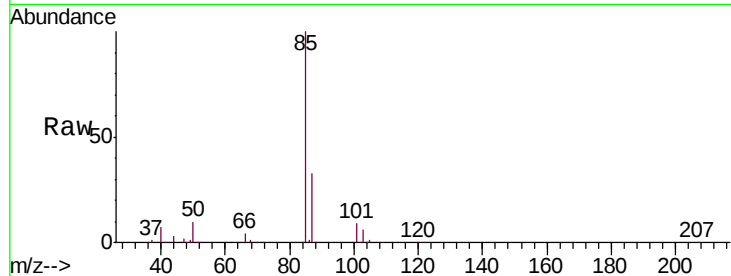
VSTD05047

Tgt Ion: 85 Resp: 224073

Ion Ratio Lower Upper

85 100

87 32.6 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU030216.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030216.D (-1) (-)

1.21

250000

200000

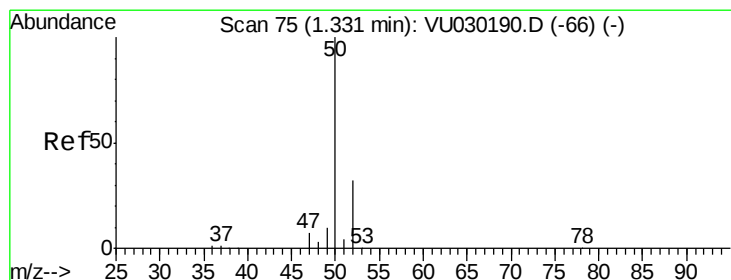
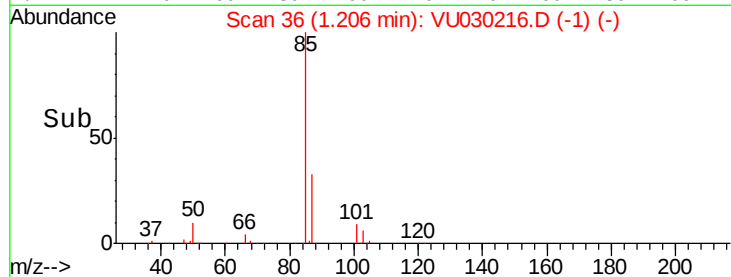
150000

100000

50000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 47.495 ug/L

RT: 1.33 min Scan# 75

Delta R.T. -0.00 min

Lab File: VU030216.D

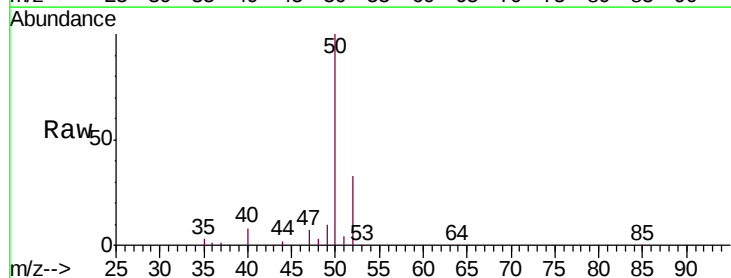
Acq: 20 Mar 2019 08:53

Tgt Ion: 50 Resp: 218547

Ion Ratio Lower Upper

50 100

52 33.1 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030216.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU030216.D (-1) (-)

1.33

200000

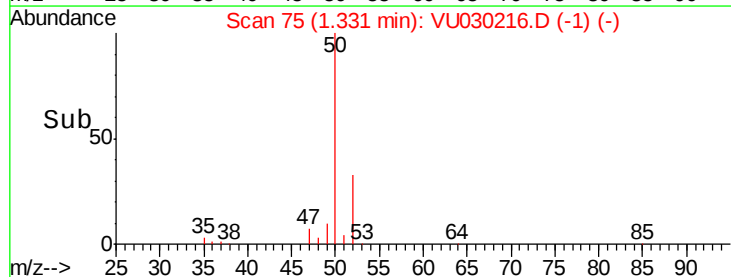
150000

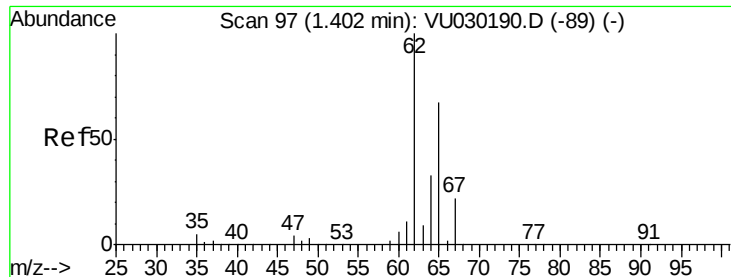
100000

50000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 47.537 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

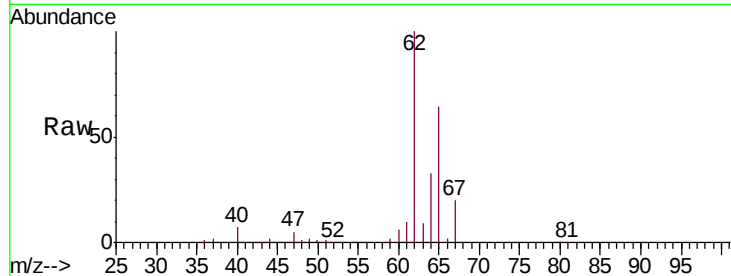
VSTD05047

Tgt Ion: 62 Resp: 232200

Ion Ratio Lower Upper

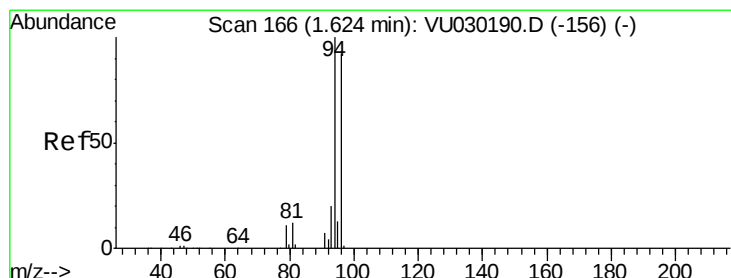
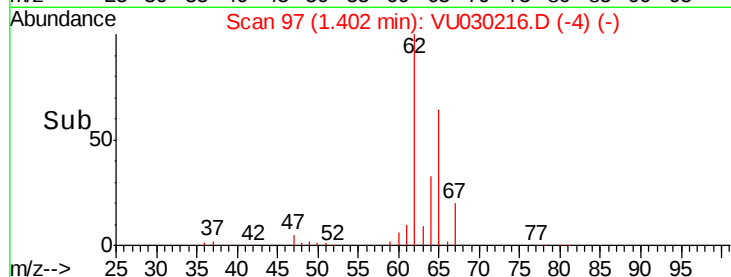
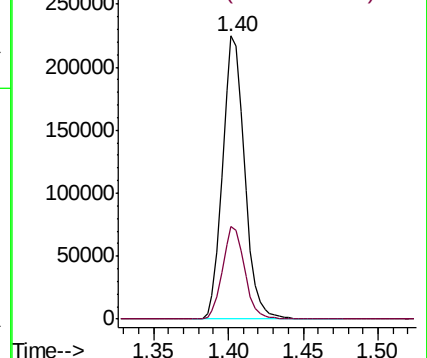
62 100

64 32.6 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 50.023 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU030216.D

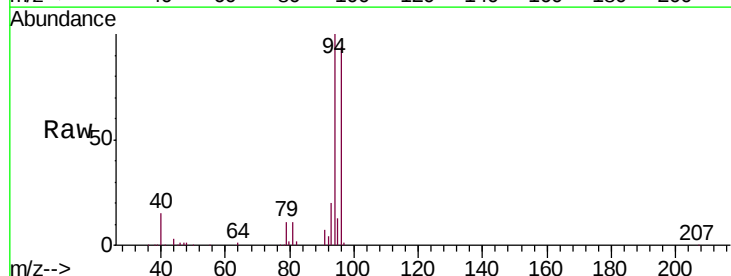
Acq: 20 Mar 2019 08:53

Tgt Ion: 94 Resp: 132232

Ion Ratio Lower Upper

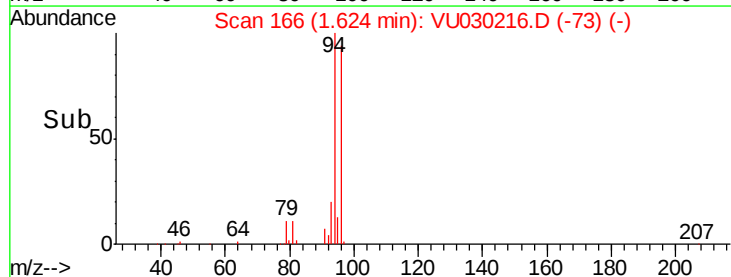
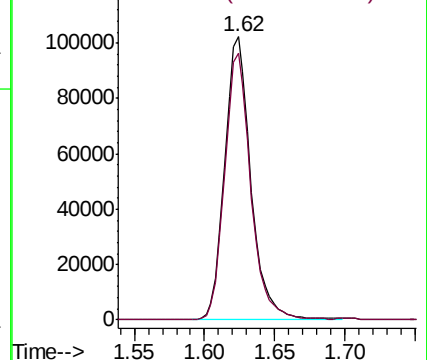
94 100

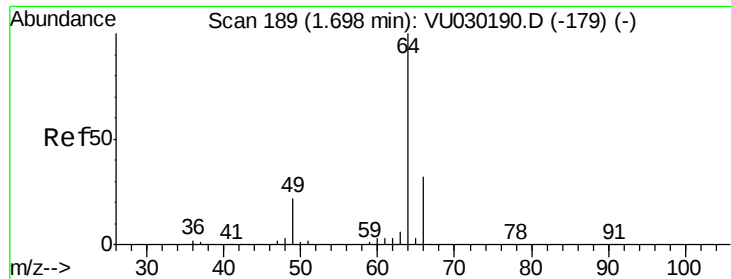
96 94.4 66.6 123.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 47.080 ug/L

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

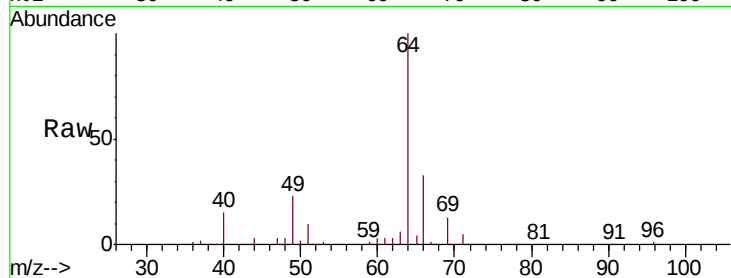
VSTD05047

Tgt Ion: 64 Resp: 135966

Ion Ratio Lower Upper

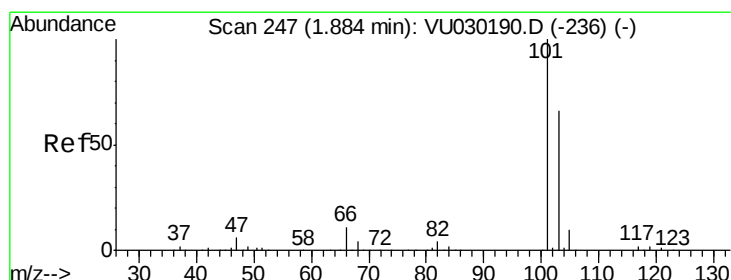
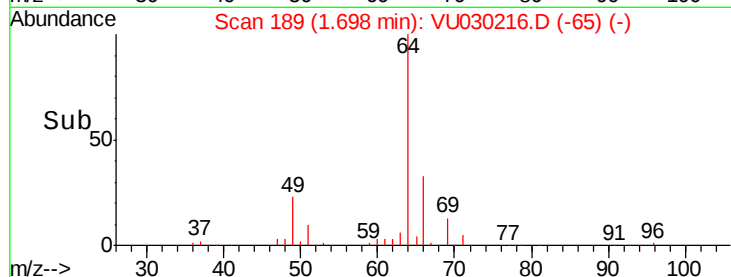
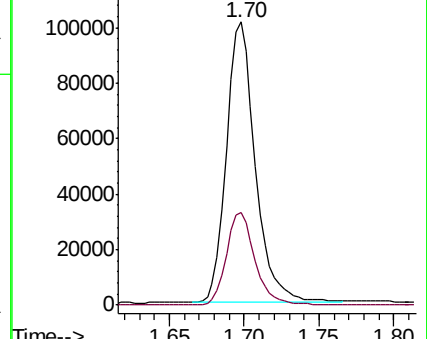
64 100

66 32.9 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VU030216.D (-65) (-)

Ion 66.00 (65.70 to 66.70): VU030216.D (-65) (-)



#9

Trichlorofluoromethane

Concen: 47.918 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU030216.D

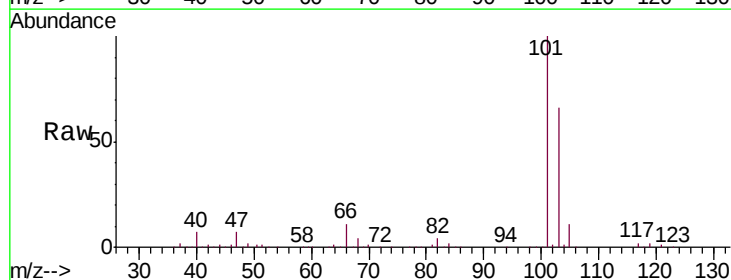
Acq: 20 Mar 2019 08:53

Tgt Ion: 101 Resp: 297244

Ion Ratio Lower Upper

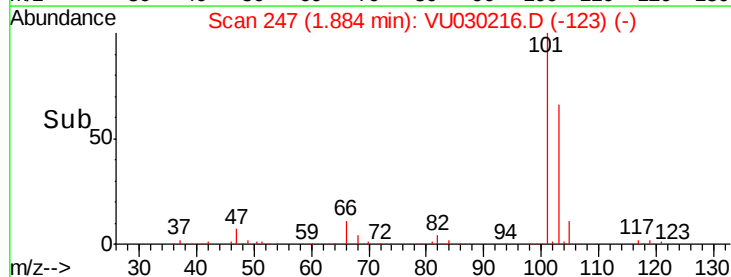
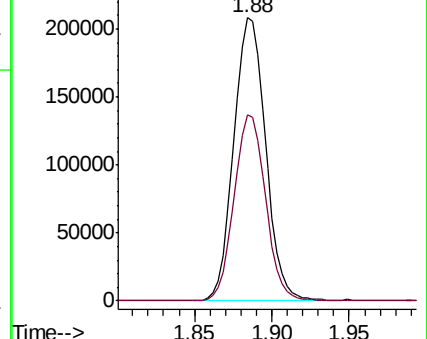
101 100

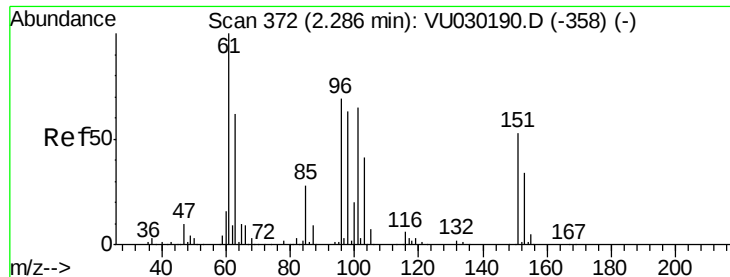
103 64.7 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU030216.D (-123) (-)

Ion 103.00 (102.70 to 103.70): VU030216.D (-123) (-)





#10

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

Concen: 47.796 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampled :

VSTD05047

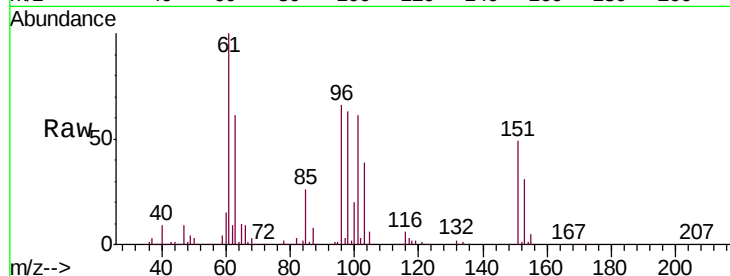
Tgt Ion: 101 Resp: 180287

Ion Ratio Lower Upper

101 100

85 41.3 32.5 48.7

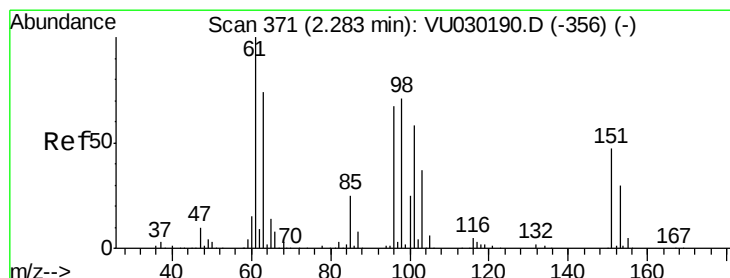
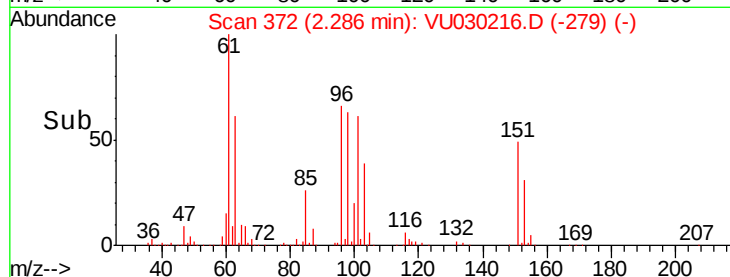
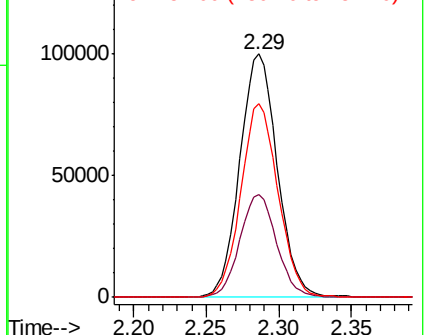
151 79.2 64.7 97.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 46.121 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

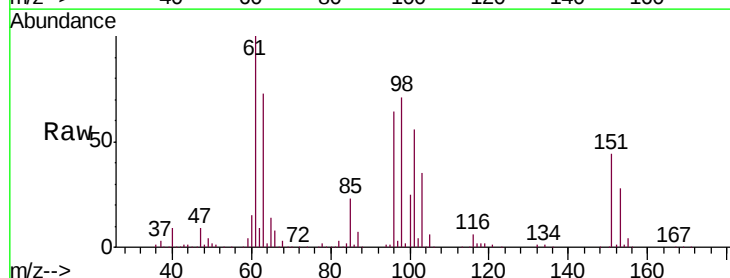
Tgt Ion: 96 Resp: 172767

Ion Ratio Lower Upper

96 100

61 155.4 104.6 194.2

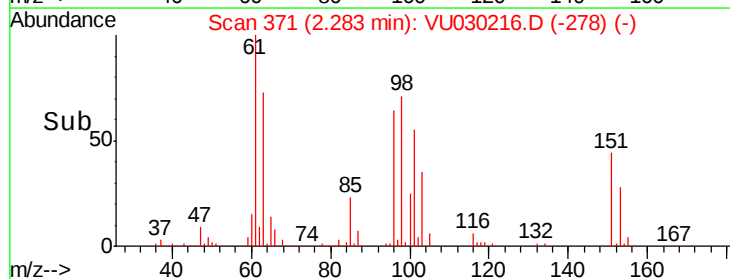
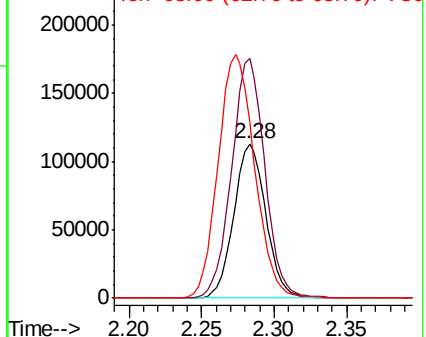
63 113.8 77.2 143.4

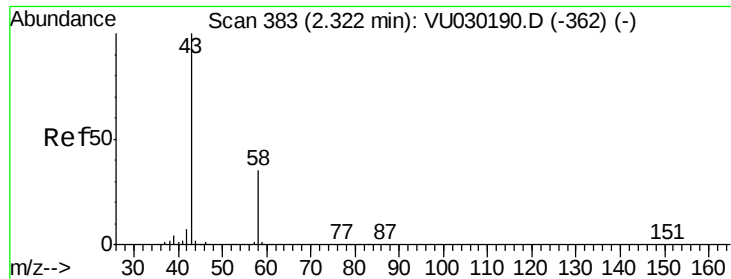


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 106.980 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

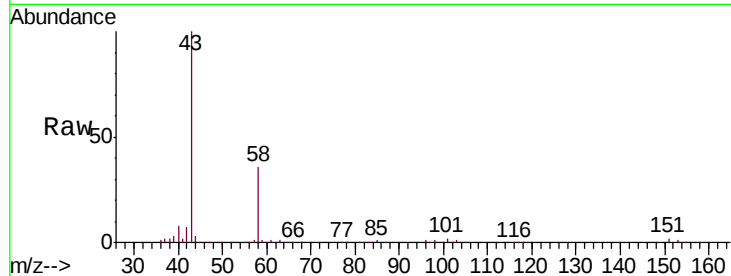
VSTD05047

Tgt Ion: 43 Resp: 314859

Ion Ratio Lower Upper

43 100

58 36.5 0.0 73.4



Abundance Ion 43.00 (42.70 to 43.70): VU030190.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU030190.D (-362) (-)

2.32

200000

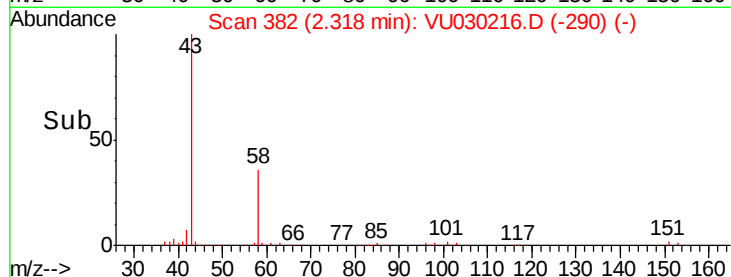
150000

100000

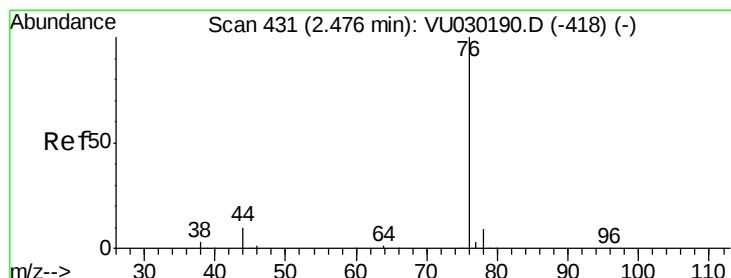
50000

0

Time-->



Time-->



#14

Carbon disulfide

Concen: 46.065 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU030216.D

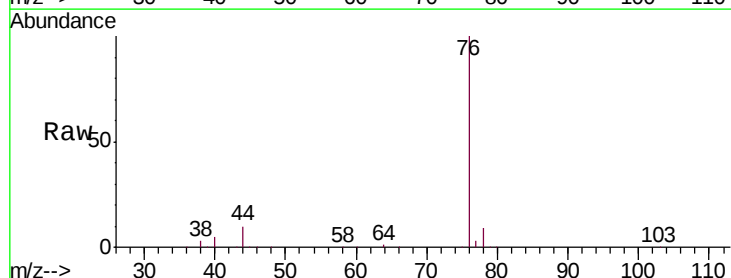
Acq: 20 Mar 2019 08:53

Tgt Ion: 76 Resp: 515387

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VU030190.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU030190.D (-418) (-)

2.48

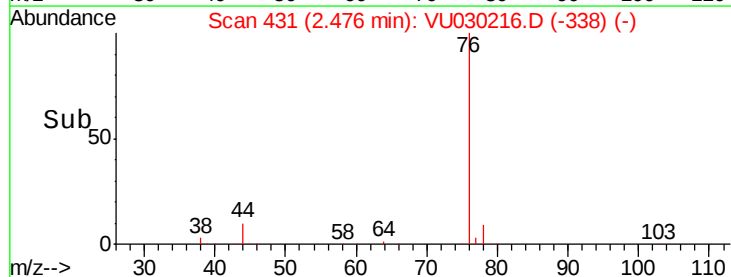
300000

200000

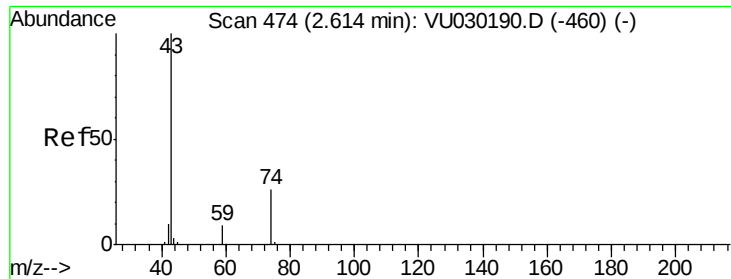
100000

0

Time-->



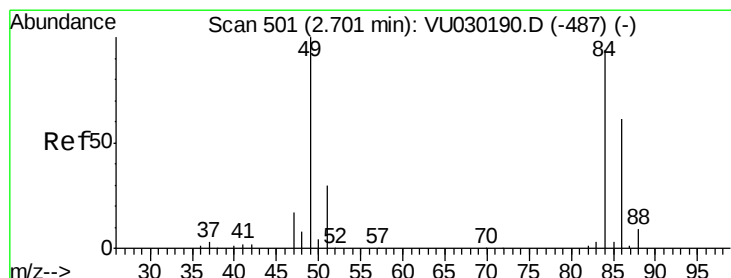
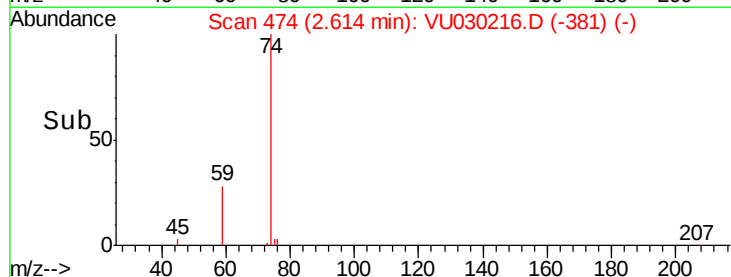
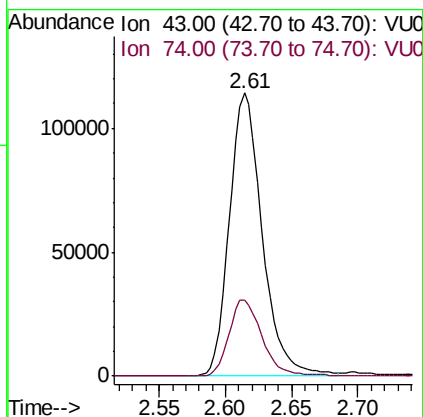
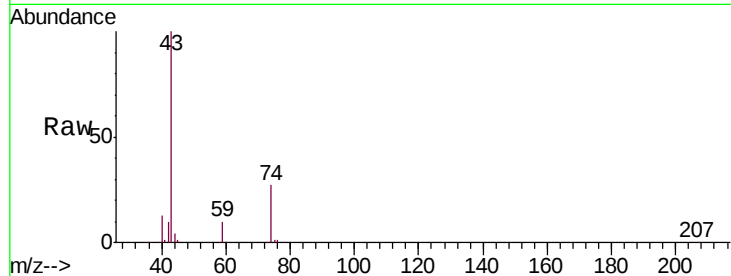
Time-->



#15
Methyl Acetate
Concen: 45.808 ug/L
RT: 2.61 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU030216.D
Acq: 20 Mar 2019 08:53

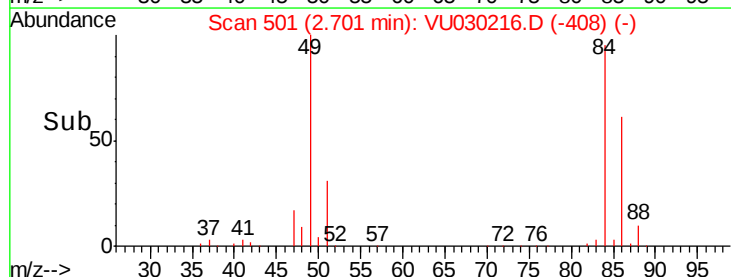
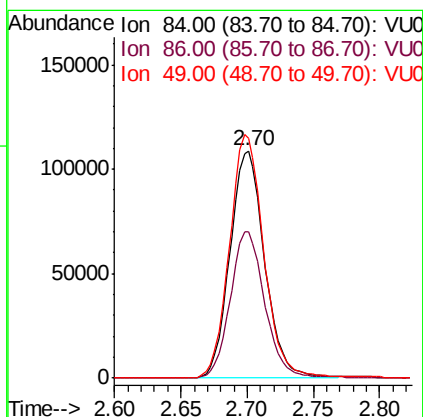
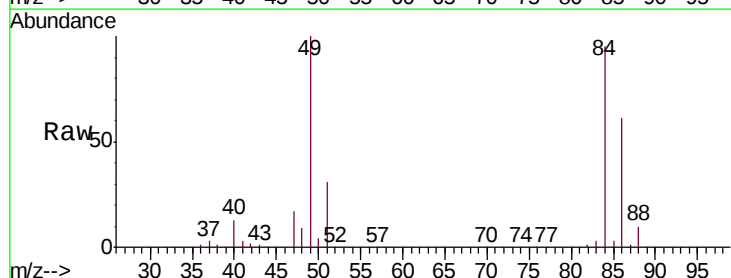
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

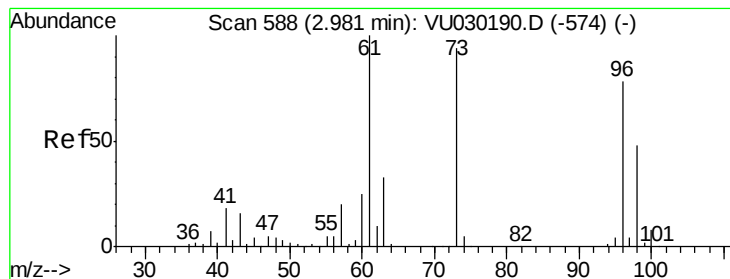
Tgt Ion: 43 Resp: 196056
Ion Ratio Lower Upper
43 100
74 27.4 20.9 31.3



#16
Methylene chloride
Concen: 46.426 ug/L
RT: 2.70 min Scan# 501
Delta R.T. -0.00 min
Lab File: VU030216.D
Acq: 20 Mar 2019 08:53

Tgt Ion: 84 Resp: 197237
Ion Ratio Lower Upper
84 100
86 64.1 45.6 84.6
49 105.6 75.2 139.6





#17

trans-1,2-Dichloroethene

Concen: 46.653 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

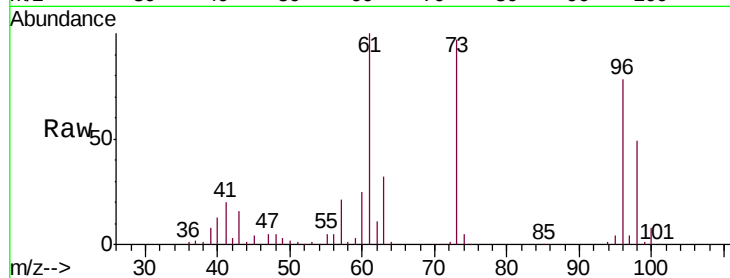
Tgt Ion: 96 Resp: 184169

Ion Ratio Lower Upper

96 100

61 127.6 90.9 168.9

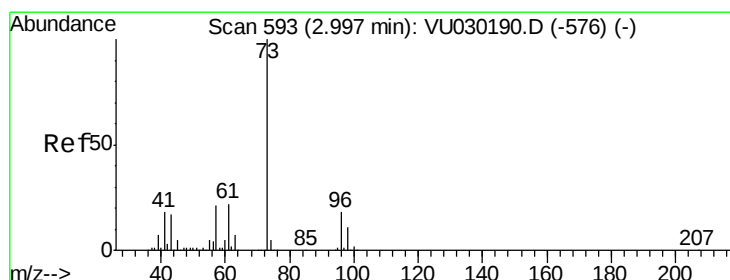
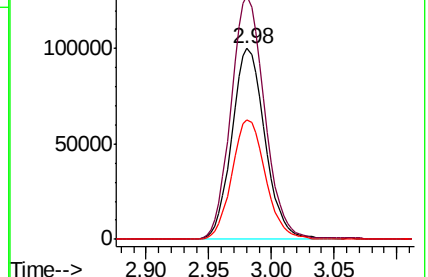
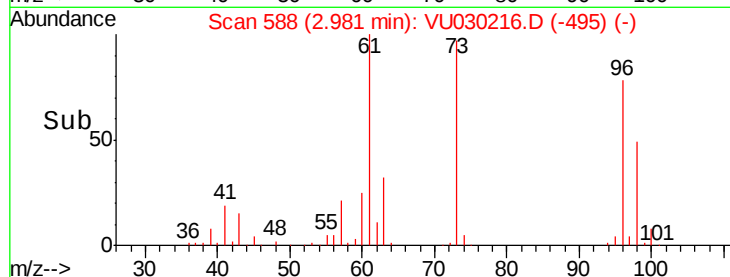
98 62.8 45.6 84.6



Abundance Ion 96.00 (95.70 to 96.70): VU030216.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU030216.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU030216.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 47.288 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

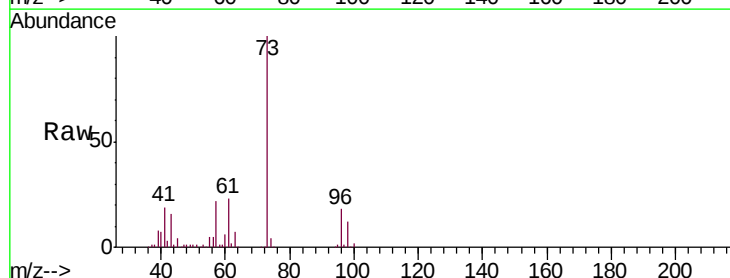
Tgt Ion: 73 Resp: 536993

Ion Ratio Lower Upper

73 100

43 16.5 13.1 19.7

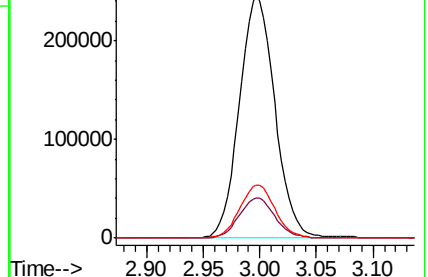
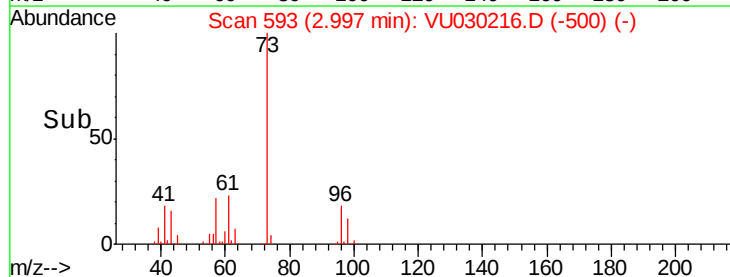
57 21.7 17.1 25.7

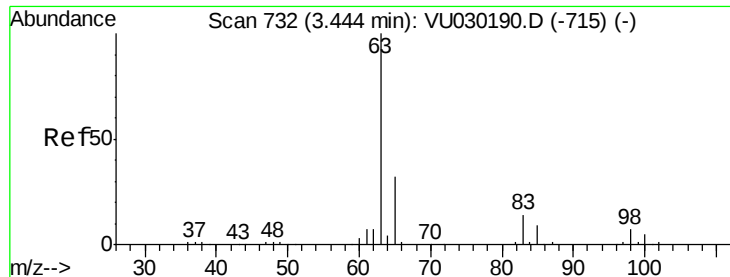


Abundance Ion 73.00 (72.70 to 73.70): VU030216.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU030216.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU030216.D (-500) (-)

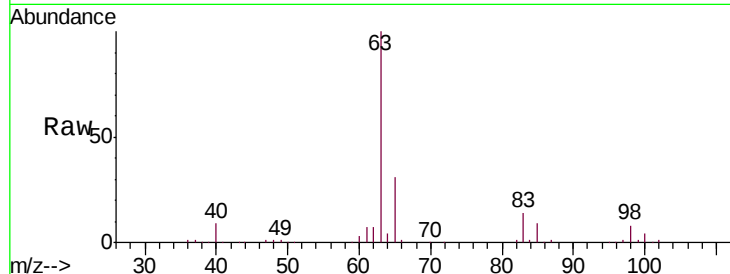




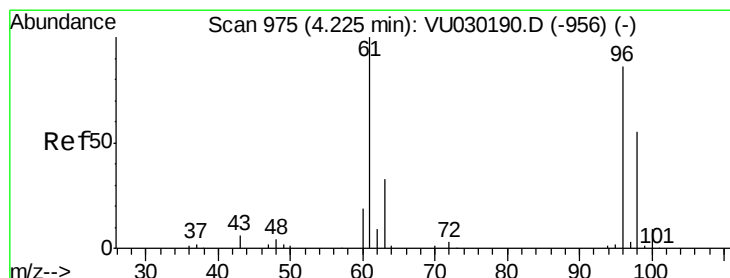
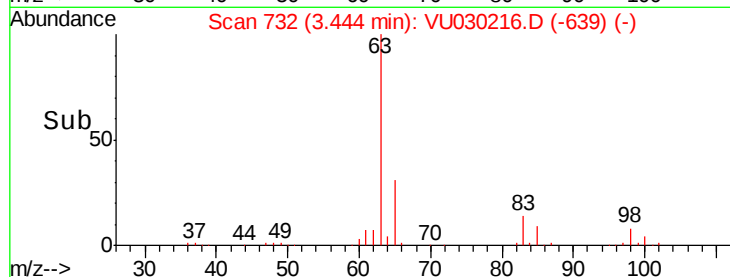
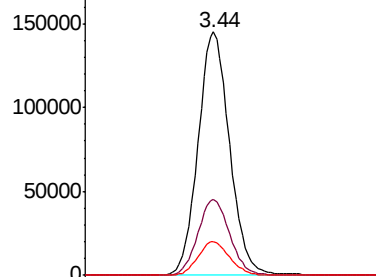
#19
 1,1-Dichloroethane
 Concen: 47.674 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion: 63 Resp: 323707
 Ion Ratio Lower Upper
 63 100
 65 31.2 21.8 40.4
 83 13.9 9.9 18.3

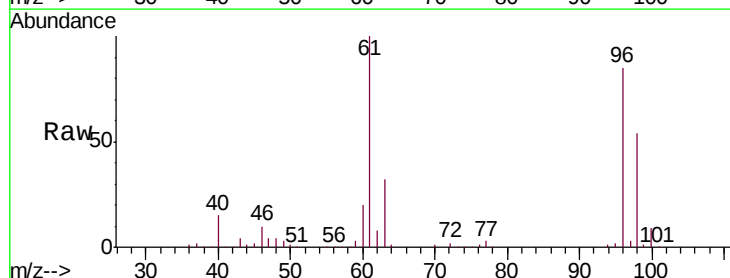


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

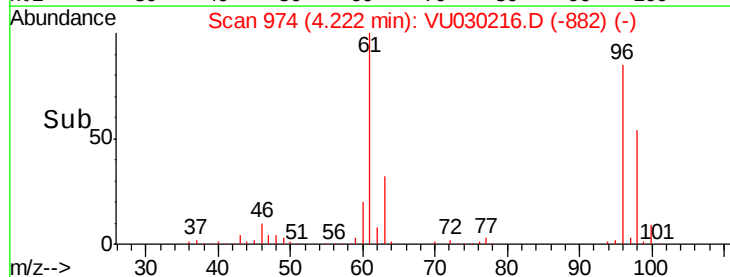
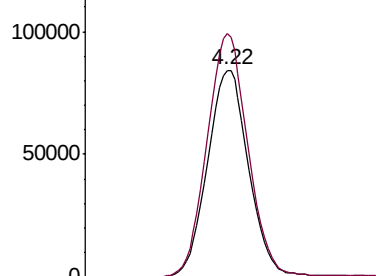


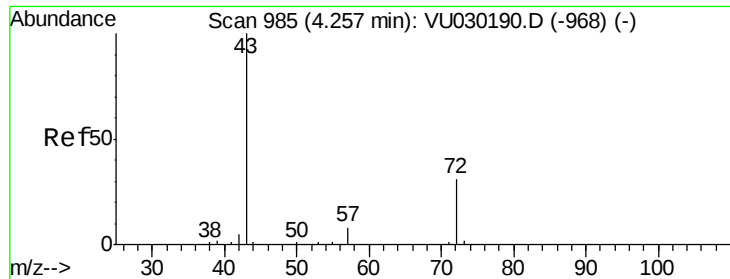
#20
 cis-1,2-Dichloroethene
 Concen: 48.090 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

Tgt Ion: 96 Resp: 207997
 Ion Ratio Lower Upper
 96 100
 61 117.6 81.5 151.3
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 101.479 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

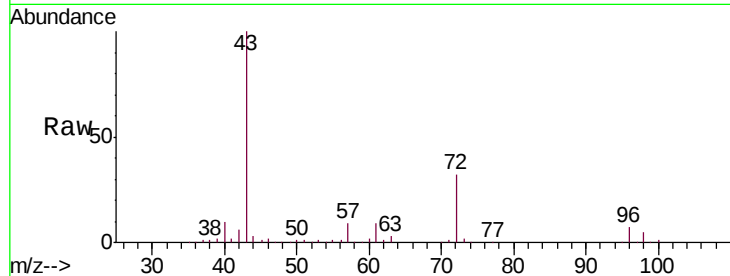
VSTD05047

Tgt Ion: 43 Resp: 351024

Ion Ratio Lower Upper

43 100

72 31.0 15.7 47.1



Abundance Ion 43.00 (42.70 to 43.70): VU030190.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU030190.D (-968) (-)

4.26

150000

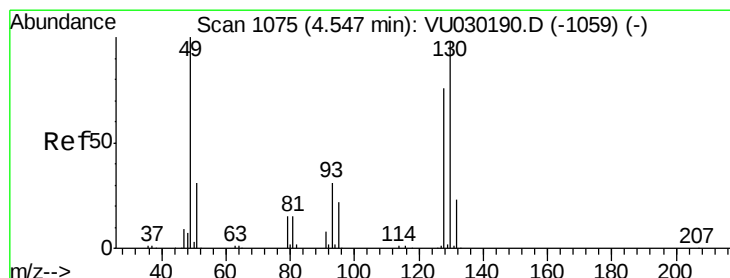
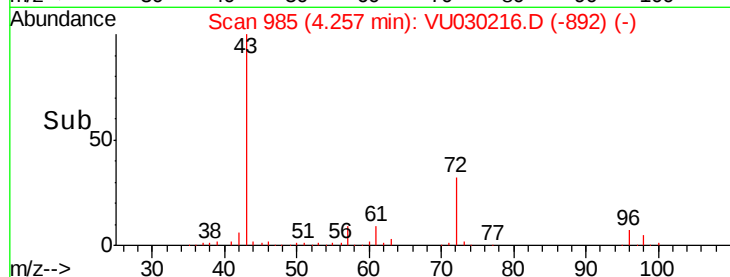
100000

50000

0

4.20 4.30

Time-->



#23

Bromochloromethane

Concen: 47.602 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Tgt Ion: 128 Resp: 110194

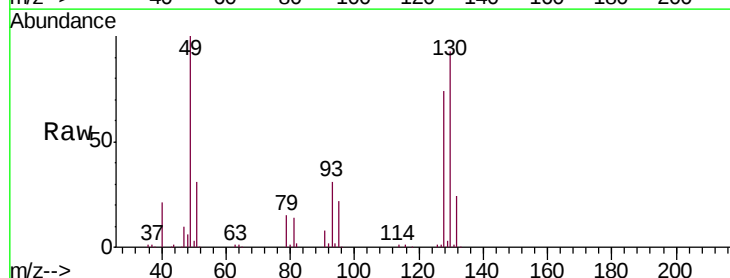
Ion Ratio Lower Upper

128 100

49 135.1 92.5 171.9

130 125.7 90.1 167.3

51 42.4 33.8 50.8



Abundance Ion 128.00 (127.70 to 128.70): VU030190.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030190.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030190.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030190.D (-1059) (-)

4.54

100000

80000

60000

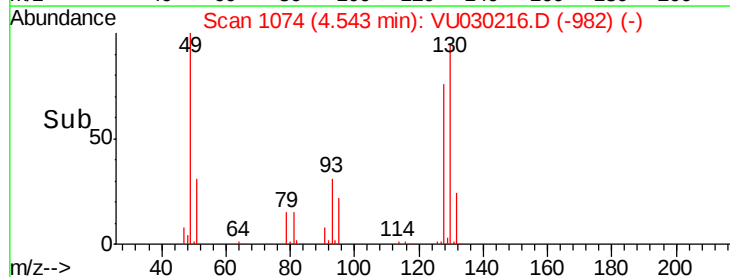
40000

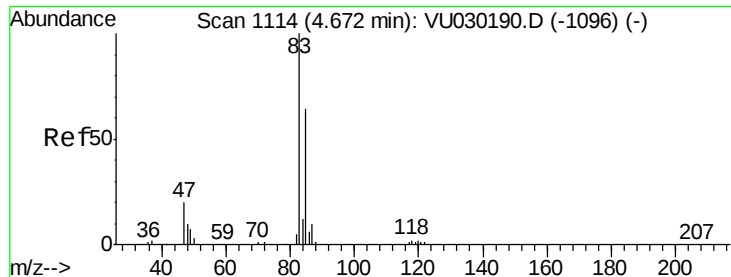
20000

0

4.50 4.60

Time-->





#25

Chloroform

Concen: 46.957 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

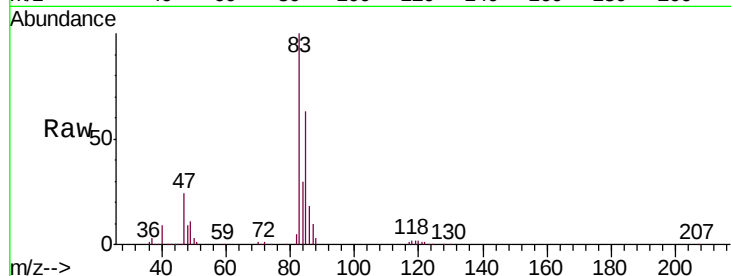
VSTD05047

Tgt Ion: 83 Resp: 332172

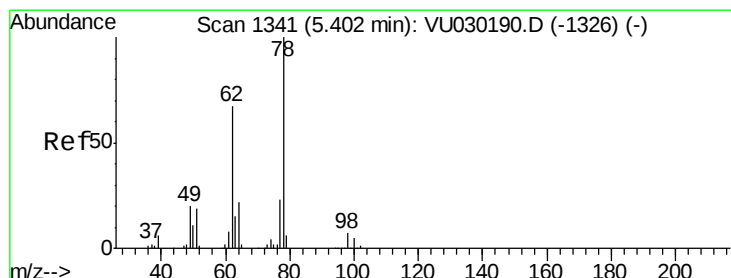
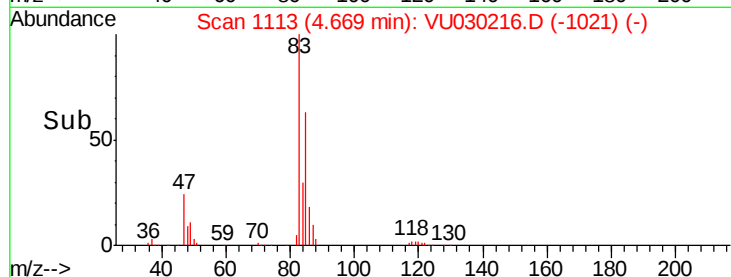
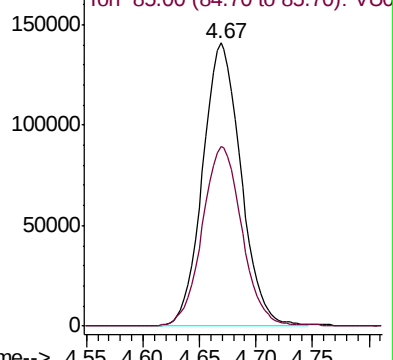
Ion Ratio Lower Upper

83 100

85 63.5 45.8 85.2



Abundance Ion 83.00 (82.70 to 83.70): VU030216.D (-1096) (-)



#27

1,2-Dichloroethane

Concen: 47.179 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU030216.D

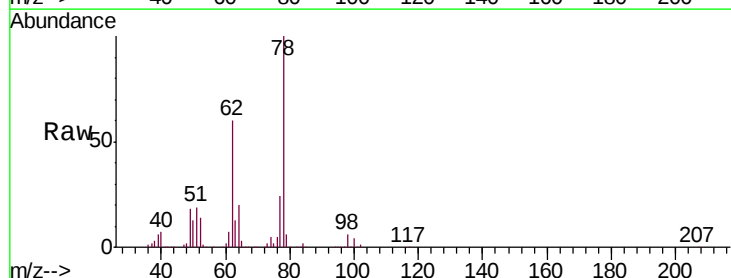
Acq: 20 Mar 2019 08:53

Tgt Ion: 62 Resp: 236553

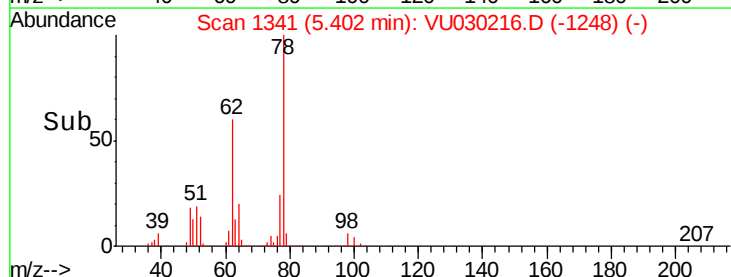
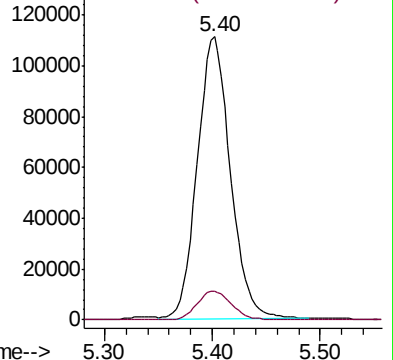
Ion Ratio Lower Upper

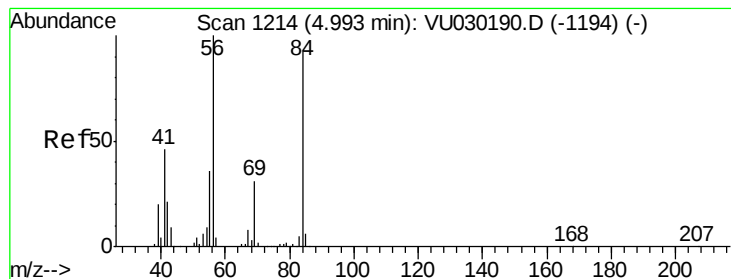
62 100

98 10.2 8.6 12.8



Abundance Ion 62.00 (61.70 to 62.70): VU030216.D (-1248) (-)





#29

Cyclohexane

Concen: 49.803 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

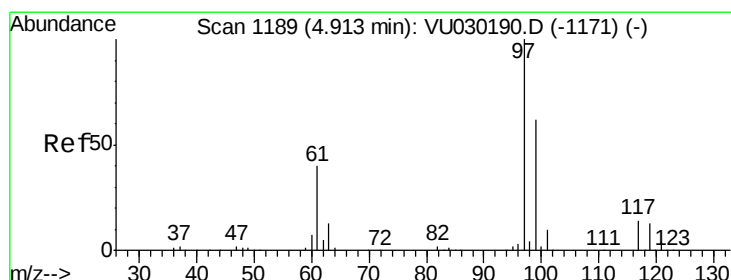
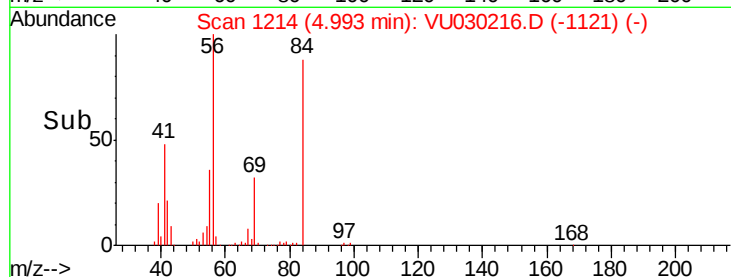
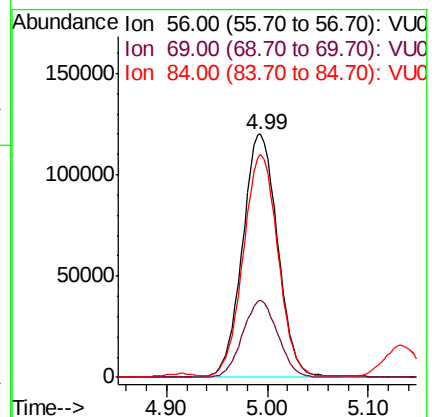
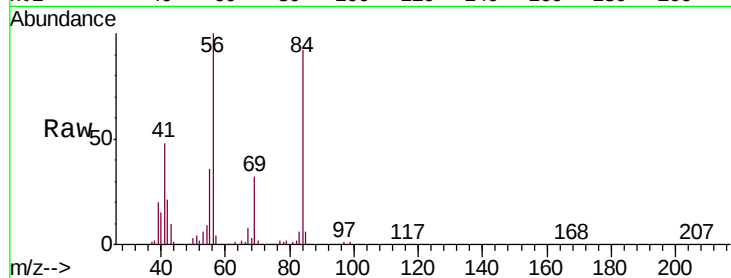
Tgt Ion: 56 Resp: 290509

Ion Ratio Lower Upper

56 100

69 31.5 25.4 38.2

84 89.4 71.5 107.3



#30

1,1,1-Trichloroethane

Concen: 48.794 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

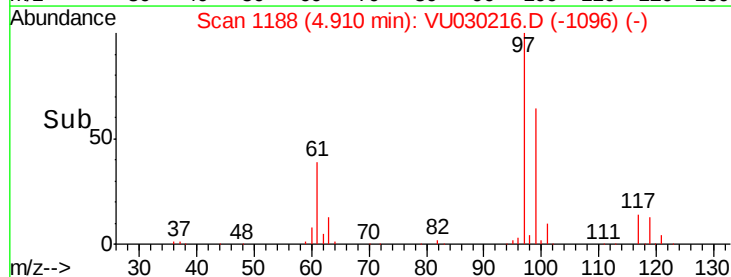
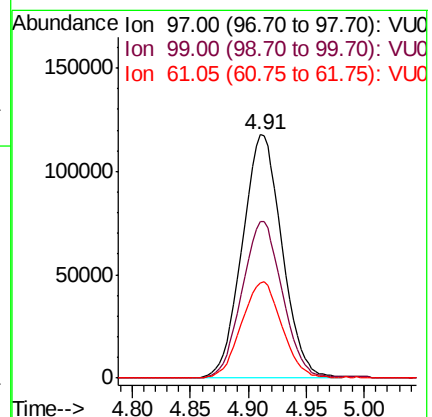
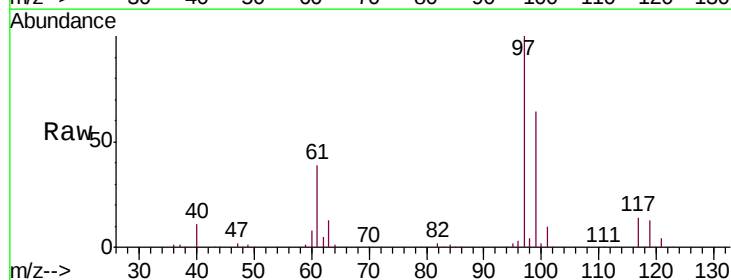
Tgt Ion: 97 Resp: 282310

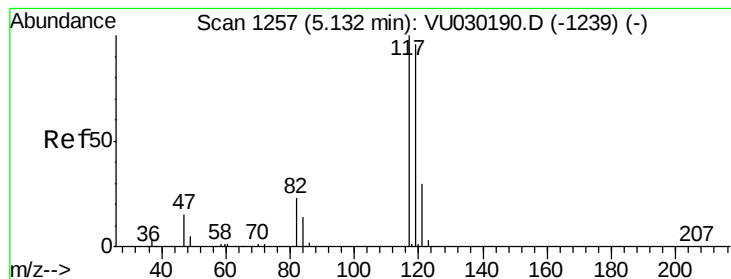
Ion Ratio Lower Upper

97 100

99 65.5 51.8 77.6

61 40.0 32.7 49.1





#31

Carbon tetrachloride

Concen: 48.360 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

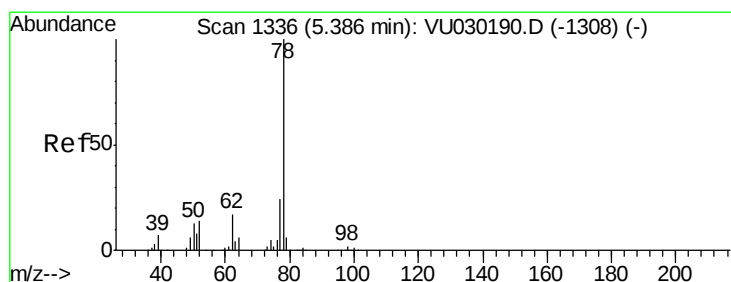
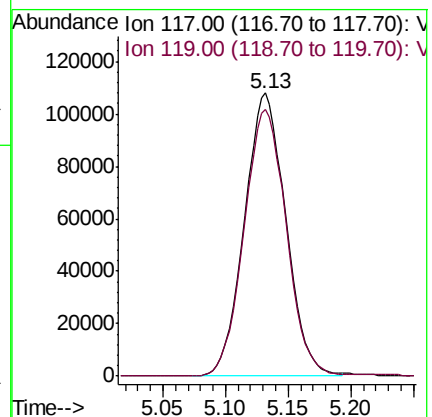
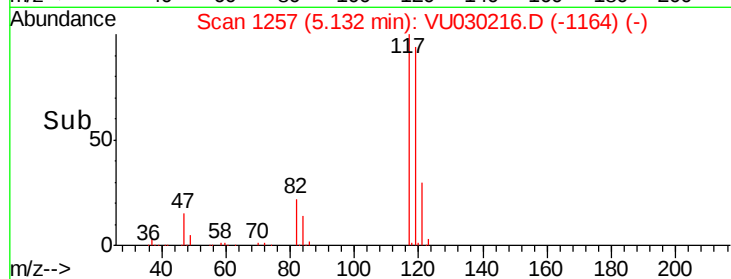
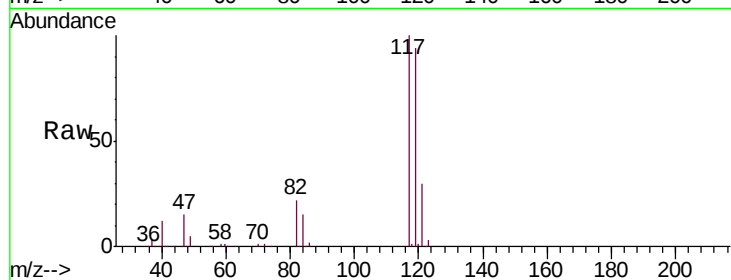
VSTD05047

Tgt Ion:117 Resp: 247702

Ion Ratio Lower Upper

117 100

119 96.1 77.1 115.7



#33

Benzene

Concen: 49.339 ug/L

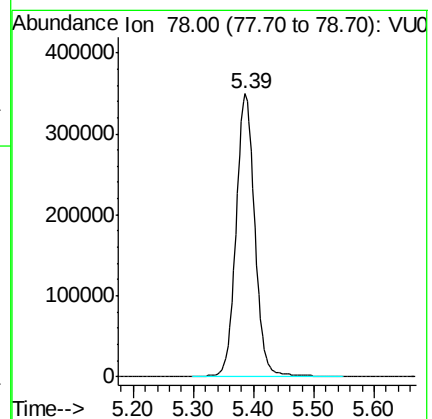
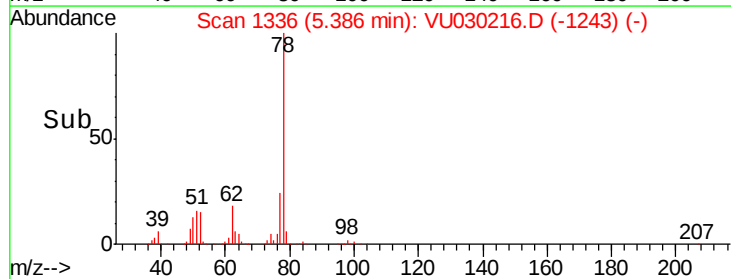
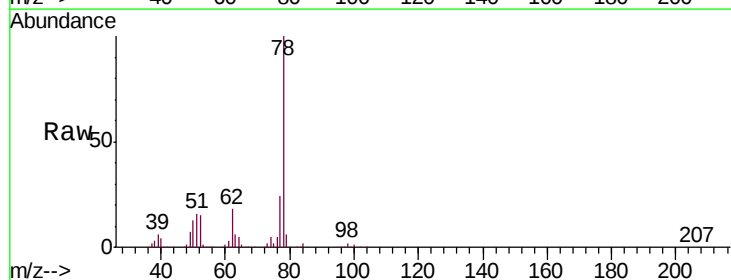
RT: 5.39 min Scan# 1336

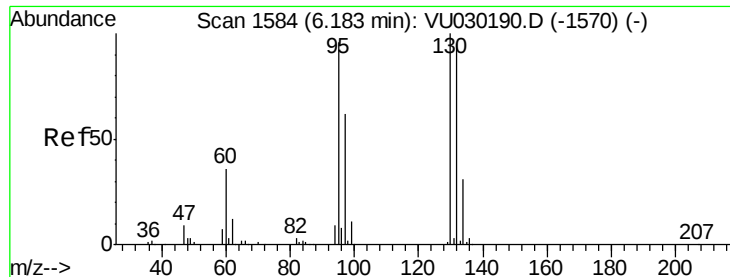
Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Tgt Ion: 78 Resp: 764204

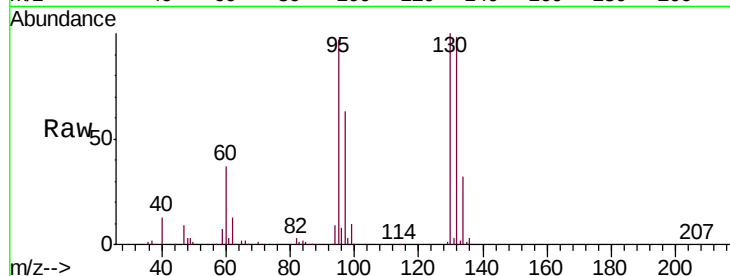




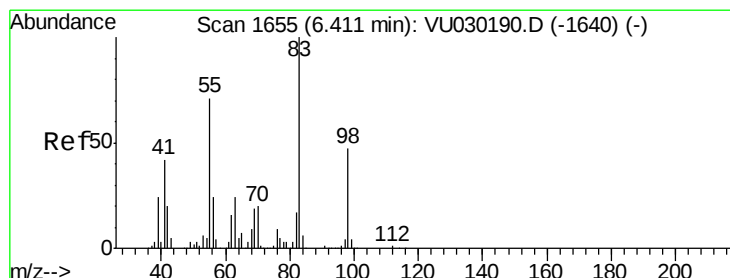
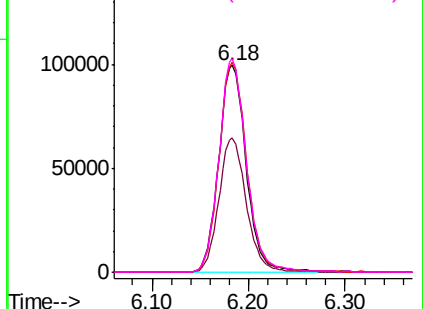
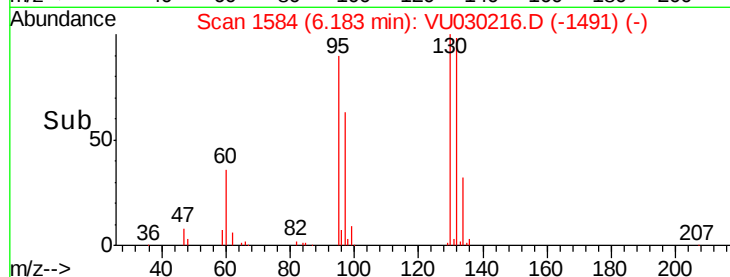
#34
 Trichloroethene
 Concen: 48.386 ug/L
 RT: 6.18 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion: 95 Resp: 197533
 Ion Ratio Lower Upper
 95 100
 97 64.9 46.2 85.8
 132 101.4 69.3 128.7
 130 103.0 73.6 136.6

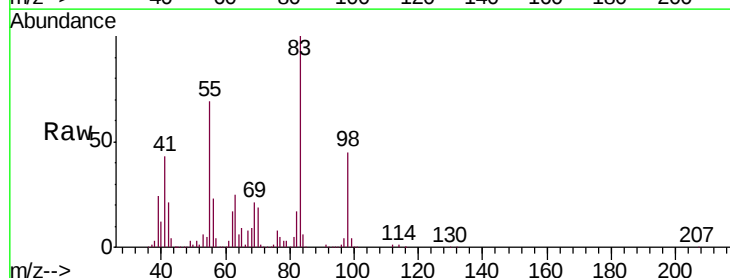


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

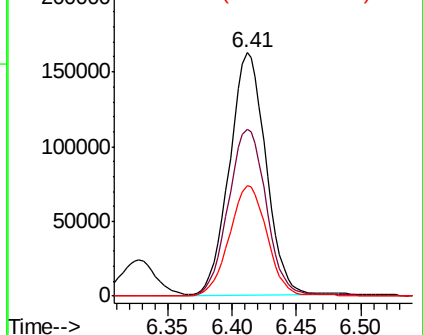
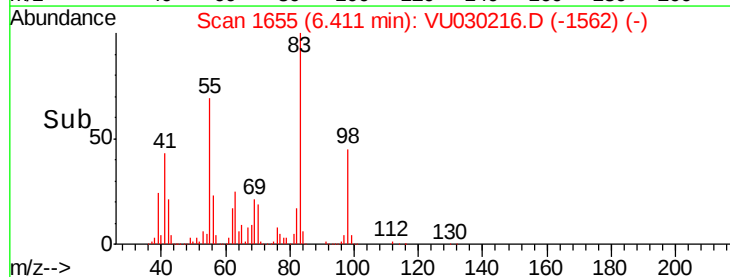


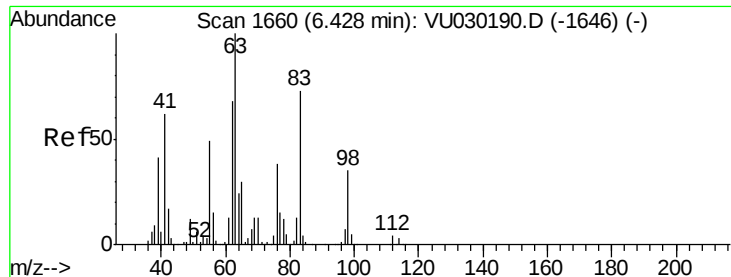
#35
 Methylcyclohexane
 Concen: 49.570 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

Tgt Ion: 83 Resp: 317326
 Ion Ratio Lower Upper
 83 100
 55 72.2 56.6 85.0
 98 47.7 37.0 55.4



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

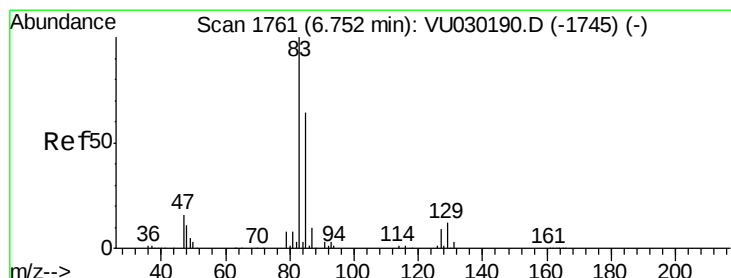
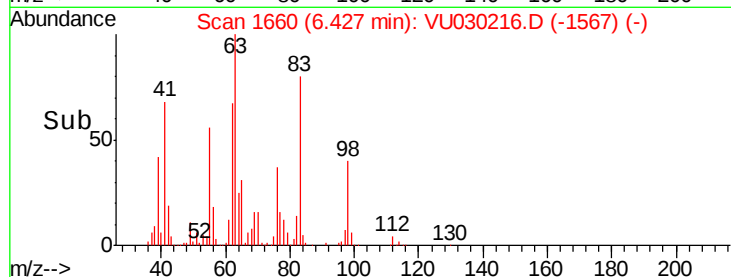
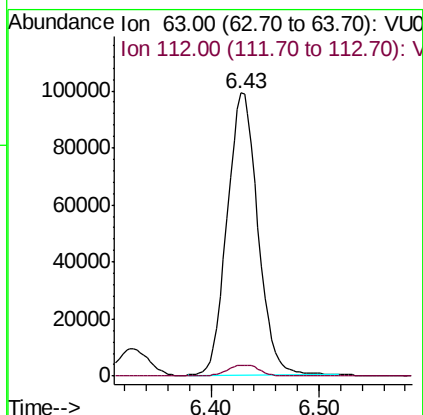
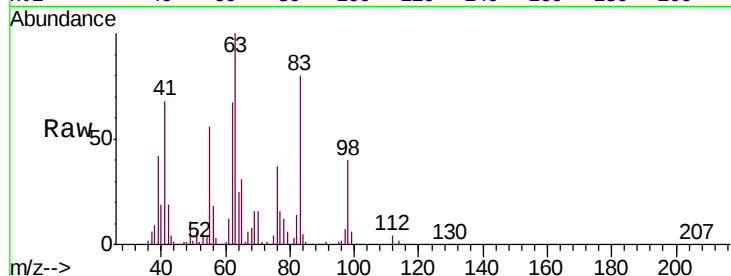




#37
 1,2-Dichloropropane
 Concen: 49.679 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

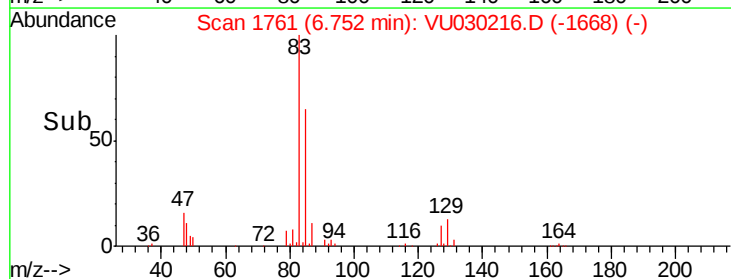
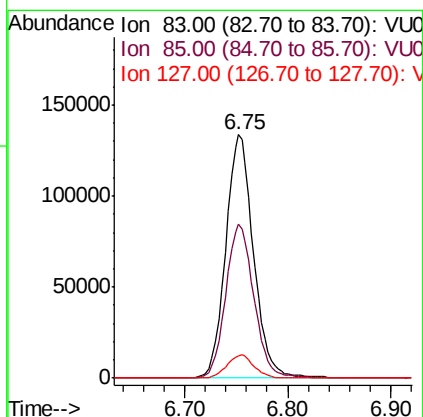
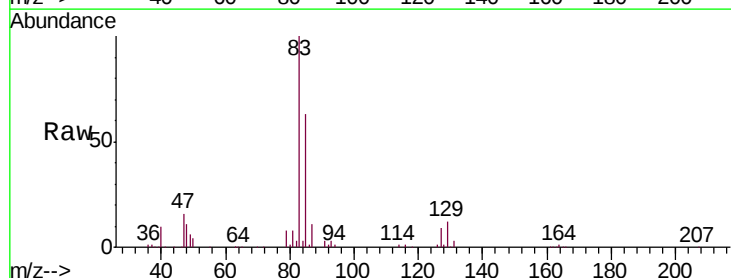
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05047

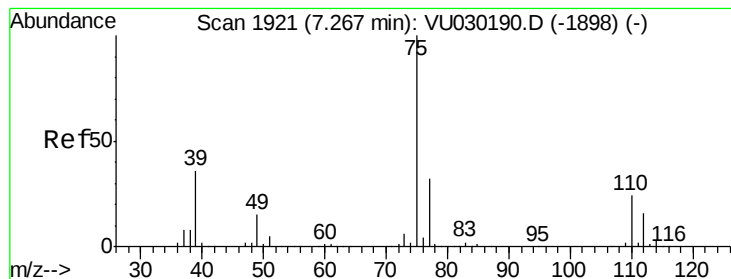
Tgt Ion: 63 Resp: 197068
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.3 4.9



#38
 Bromodichloromethane
 Concen: 48.723 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

Tgt Ion: 83 Resp: 248500
 Ion Ratio Lower Upper
 83 100
 85 63.0 45.8 85.2
 127 9.3 7.4 11.0



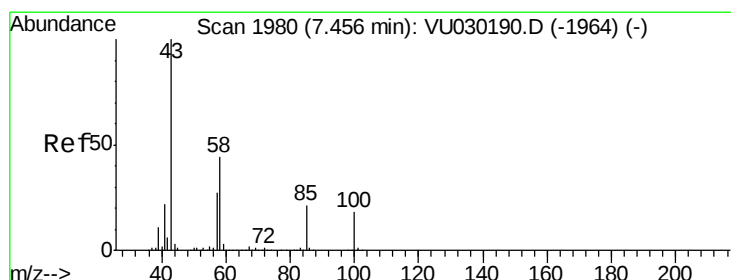
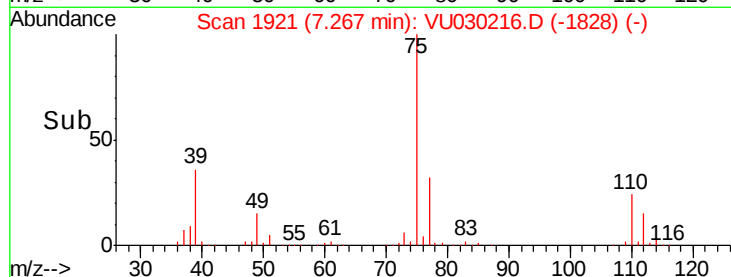
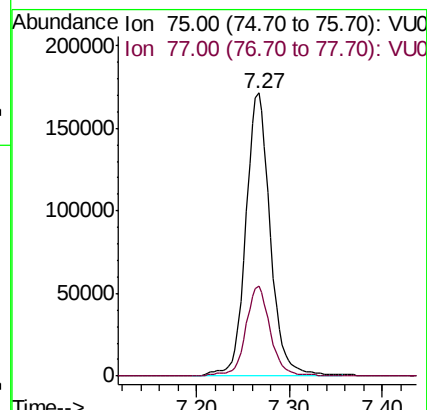
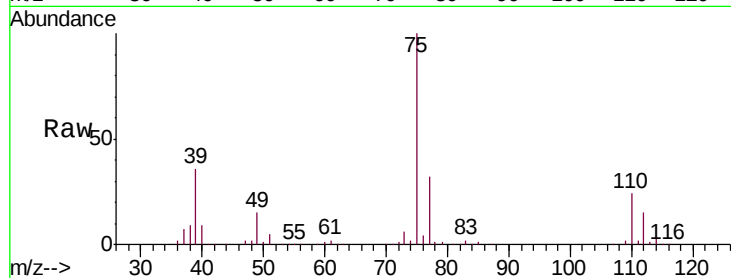


#39

cis-1,3-Dichloropropene
Concen: 49.262 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VU030216.D
Acq: 20 Mar 2019 08:53

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

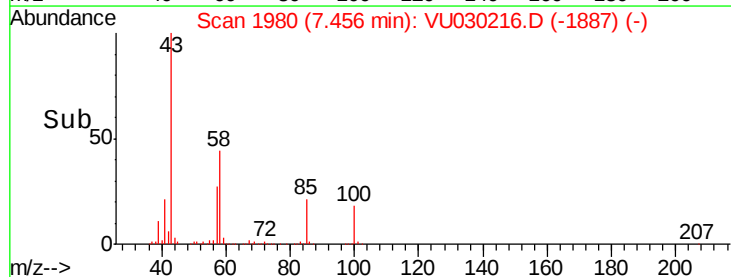
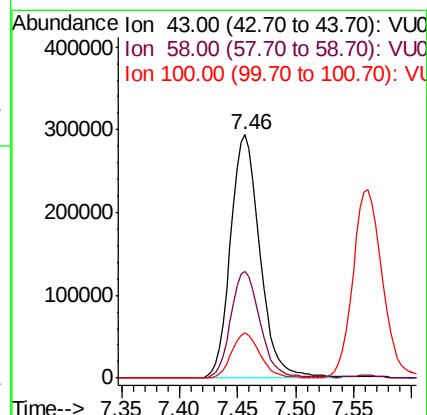
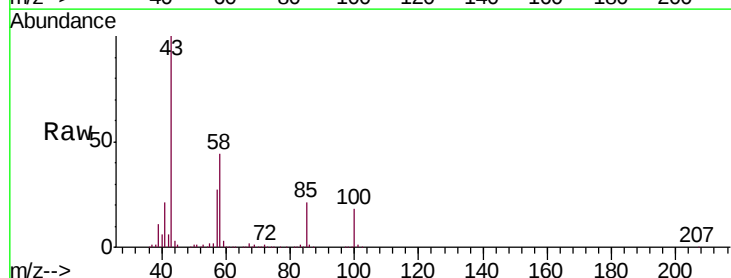
Tgt Ion: 75 Resp: 313524
Ion Ratio Lower Upper
75 100
77 31.7 22.1 41.1

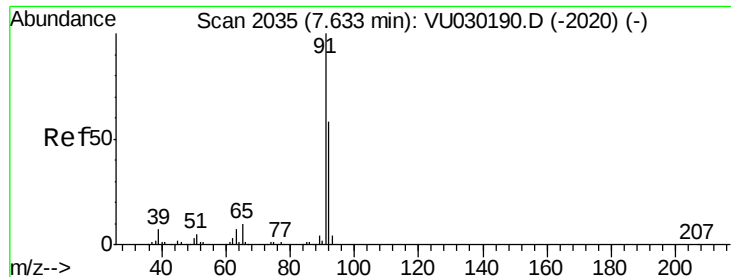


#40

4-Methyl-2-pentanone
Concen: 95.127 ug/L
RT: 7.46 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VU030216.D
Acq: 20 Mar 2019 08:53

Tgt Ion: 43 Resp: 518610
Ion Ratio Lower Upper
43 100
58 43.8 34.4 51.6
100 18.0 13.9 20.9





#42

Toluene

Concen: 49.966 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

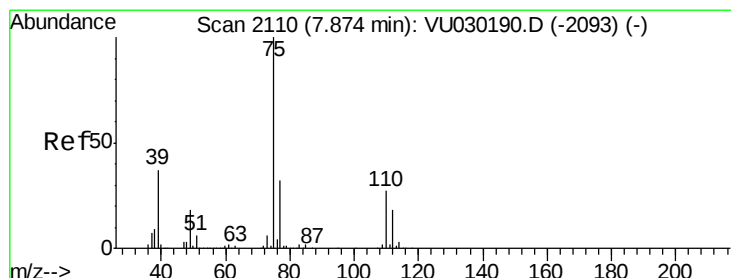
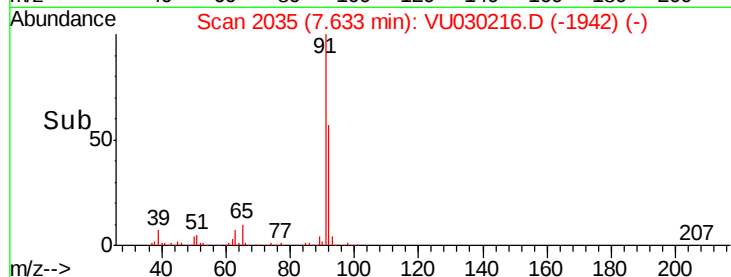
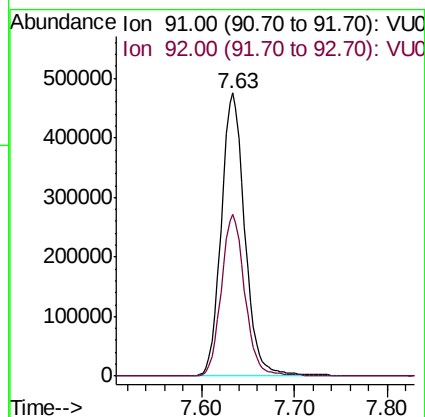
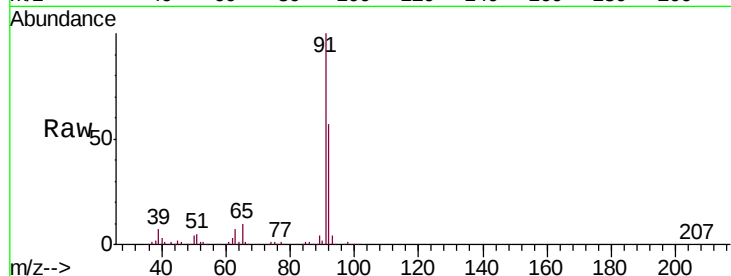
VSTD05047

Tgt Ion: 91 Resp: 842357

Ion Ratio Lower Upper

91 100

92 57.2 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 49.739 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU030216.D

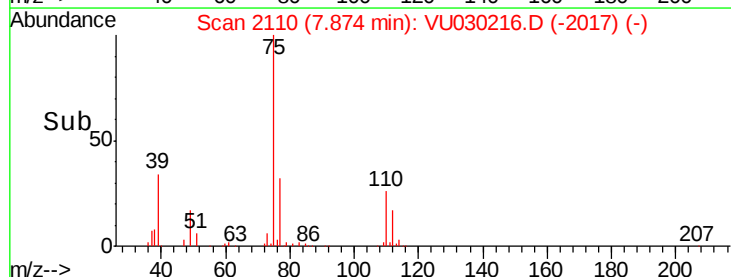
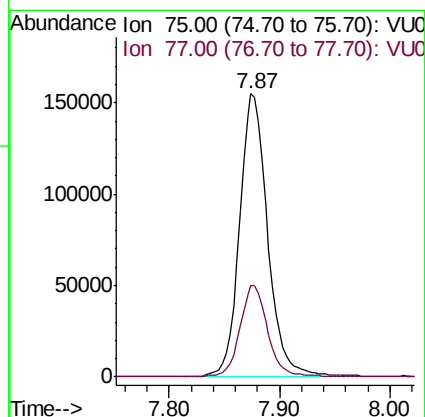
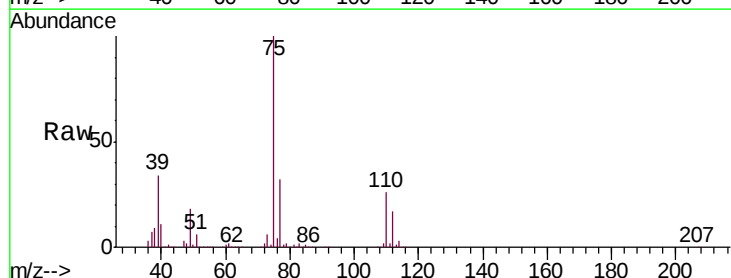
Acq: 20 Mar 2019 08:53

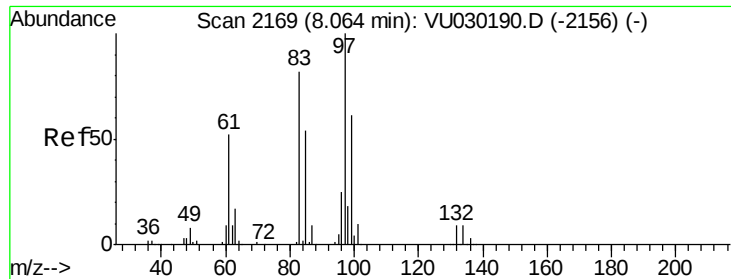
Tgt Ion: 75 Resp: 273922

Ion Ratio Lower Upper

75 100

77 32.3 22.7 42.1

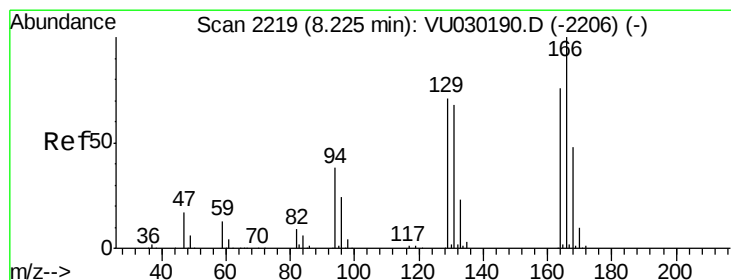
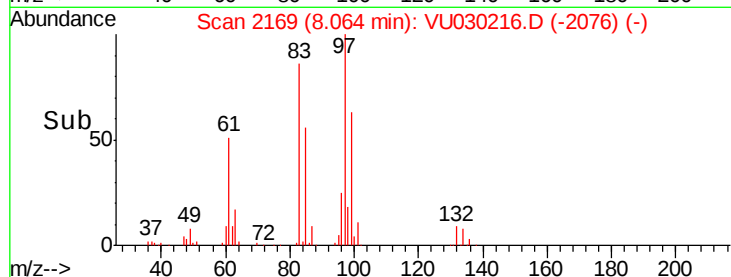
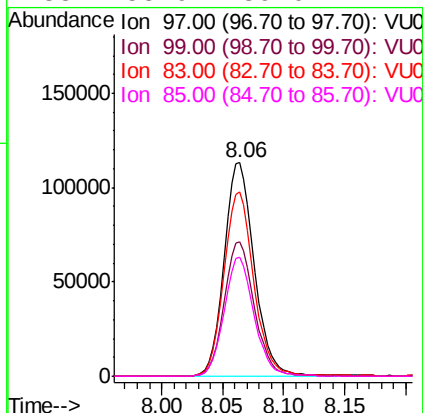
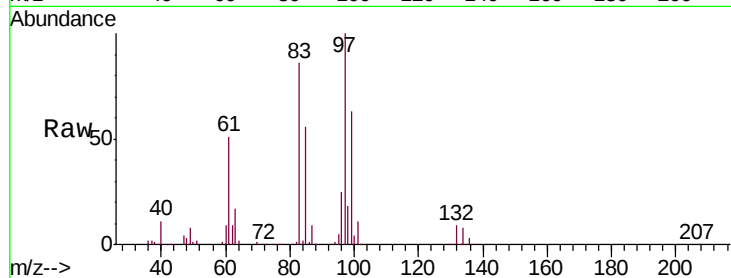




#45
 1,1,2-Trichloroethane
 Concen: 48.219 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

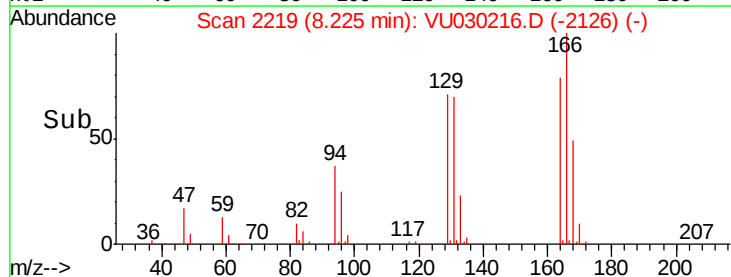
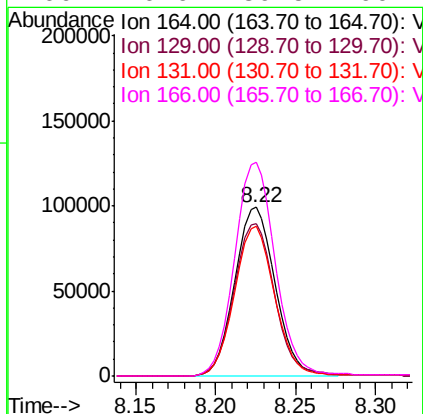
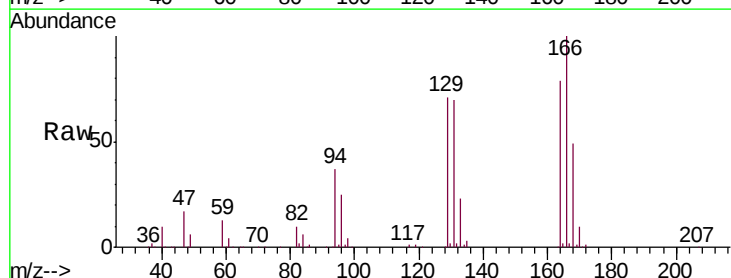
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

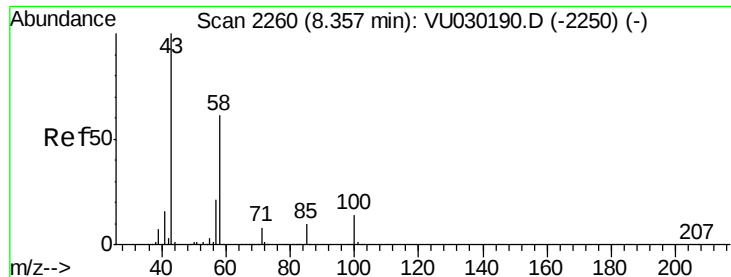
Tgt Ion:	97	Resp:	196344
Ion	Ratio	Lower	Upper
97	100		
99	62.9	43.3	80.5
83	86.1	59.3	110.1
85	55.9	39.0	72.4



#46
 Tetrachloroethene
 Concen: 49.717 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

Tgt Ion:	164	Resp:	171486
Ion	Ratio	Lower	Upper
164	100		
129	90.4	64.4	119.6
131	88.6	63.2	117.4
166	126.6	89.5	166.1

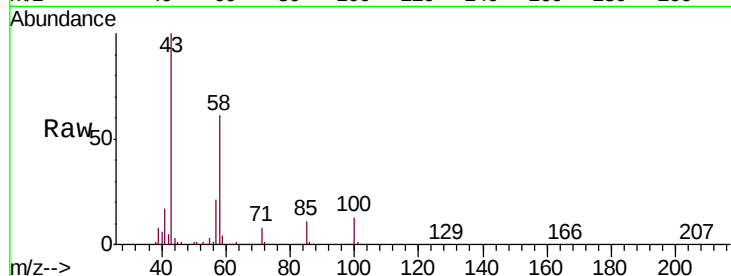




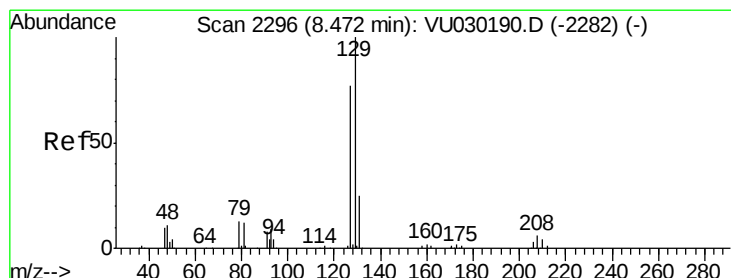
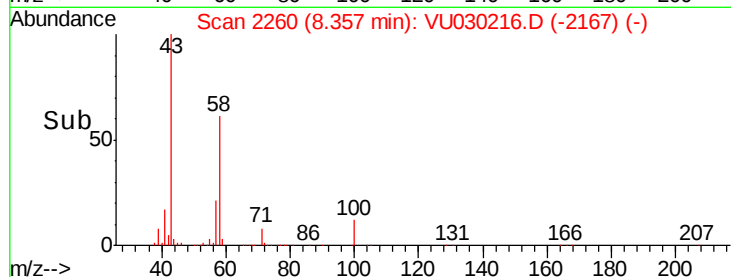
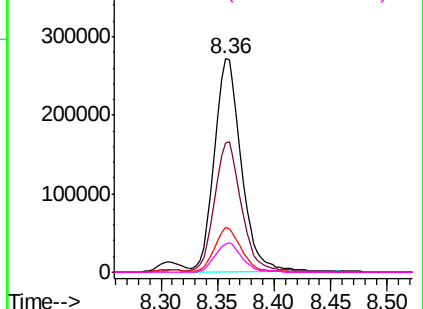
#48
2-Hexanone
Concen: 99.167 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU030216.D
Acq: 20 Mar 2019 08:53

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Tgt Ion:	43	Resp:	448722
Ion	Ratio	Lower	Upper
43	100		
58	61.1	49.3	73.9
57	20.7	17.0	25.4
100	14.0	11.0	16.4

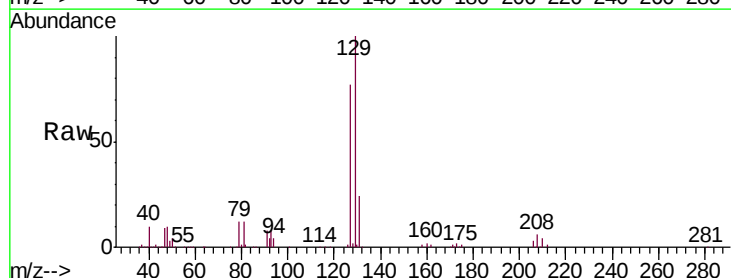


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

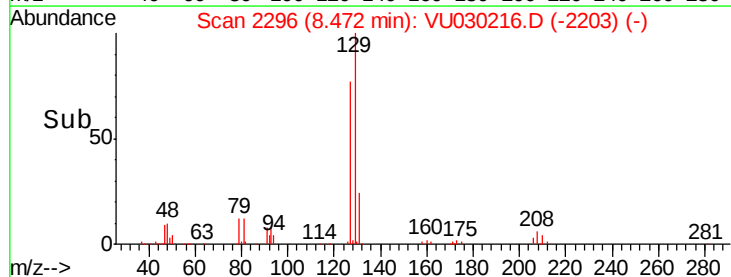
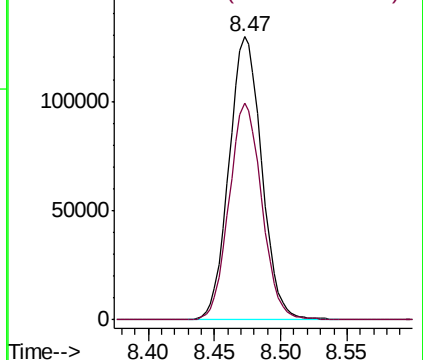


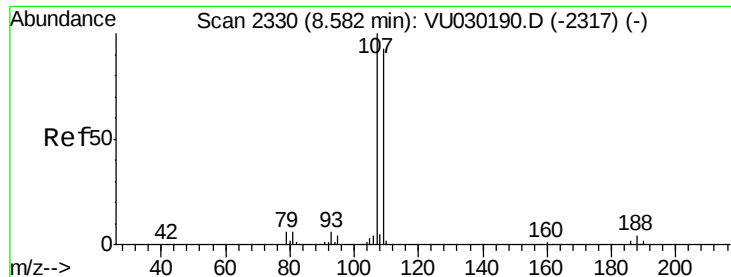
#49
Dibromochloromethane
Concen: 48.730 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030216.D
Acq: 20 Mar 2019 08:53

Tgt Ion:	129	Resp:	222507
Ion	Ratio	Lower	Upper
129	100		
127	76.6	53.4	99.2



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

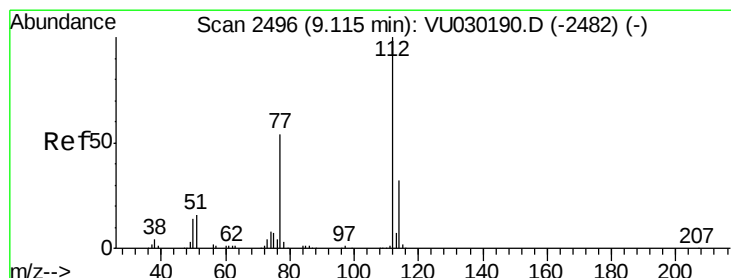
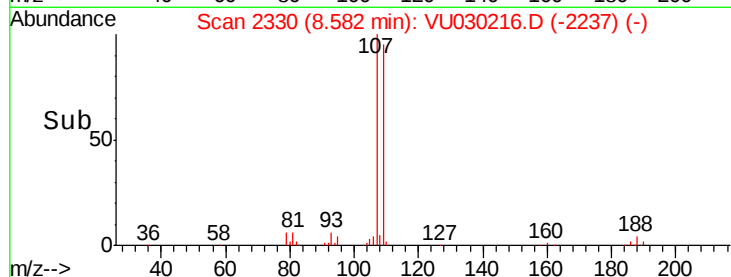
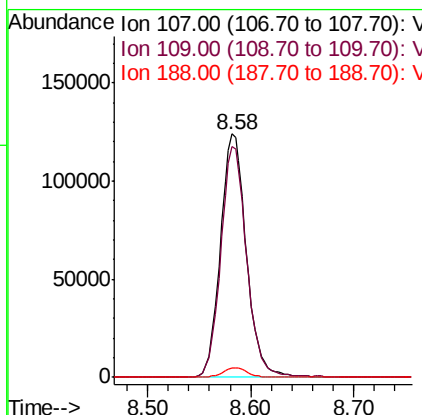
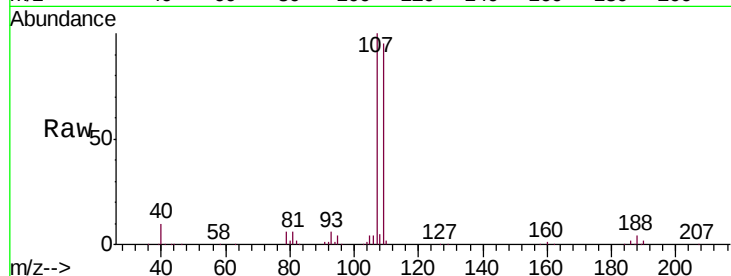




#50
1,2-Dibromoethane
Concen: 48.005 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU030216.D
Acq: 20 Mar 2019 08:53

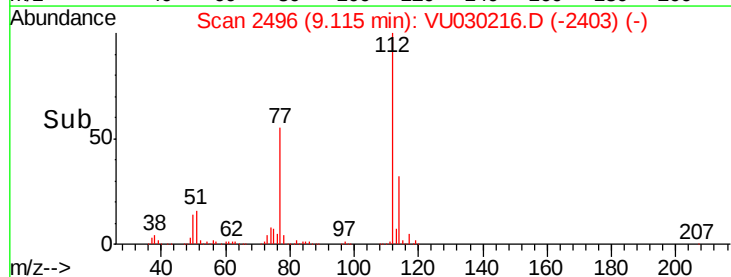
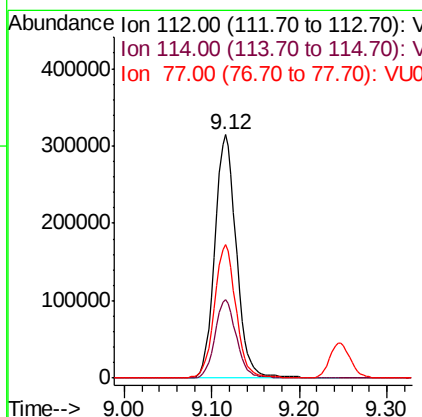
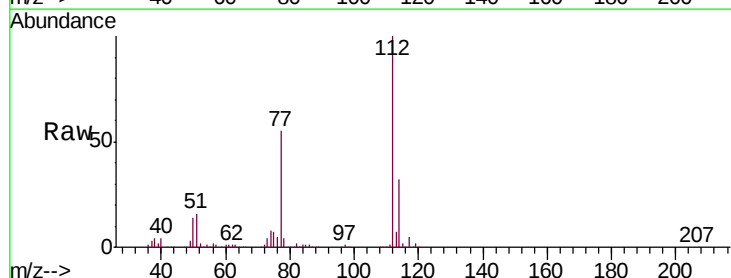
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

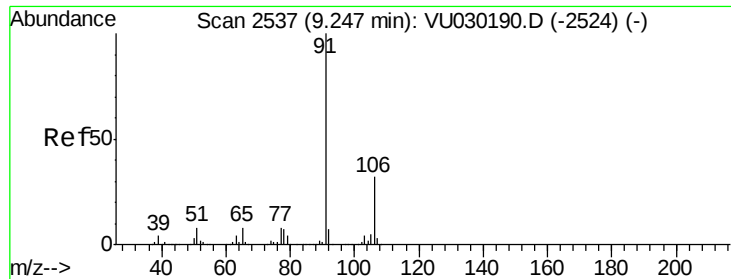
Tgt Ion:107 Resp: 216717
Ion Ratio Lower Upper
107 100
109 95.0 65.4 121.4
188 3.8 2.7 4.1



#51
Chlorobenzene
Concen: 48.249 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU030216.D
Acq: 20 Mar 2019 08:53

Tgt Ion:112 Resp: 538153
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.7
77 54.6 43.4 65.0





#52

Ethylbenzene

Concen: 49.229 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

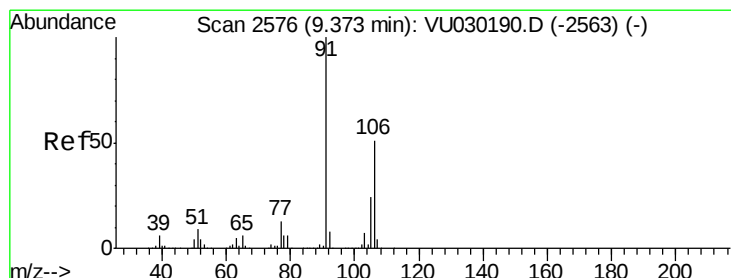
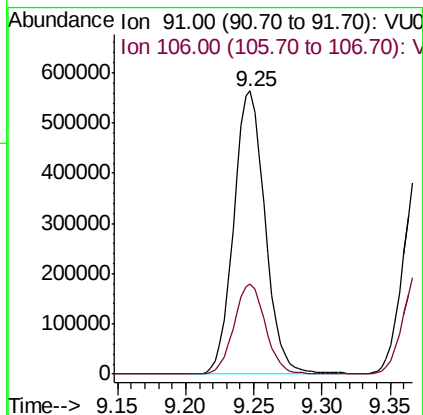
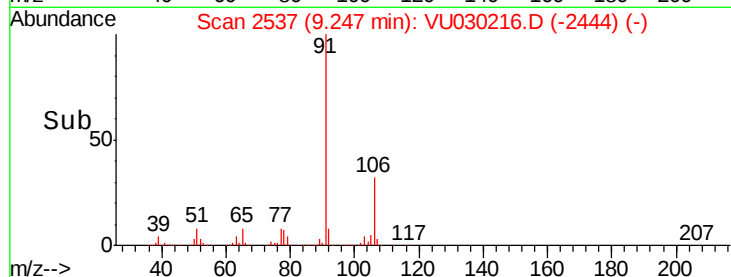
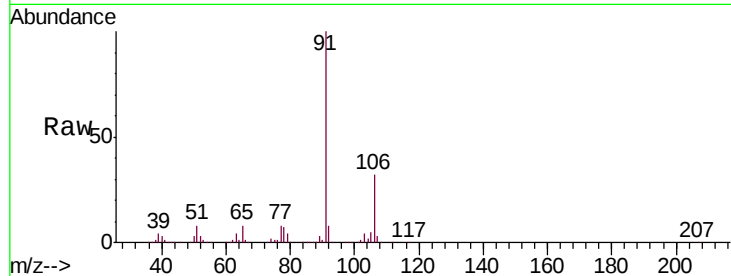
VSTD05047

Tgt Ion: 91 Resp: 901310

Ion Ratio Lower Upper

91 100

106 31.8 22.5 41.7



#53

m,p-Xylene

Concen: 50.088 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU030216.D

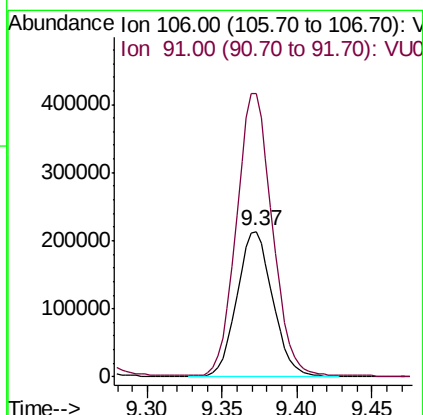
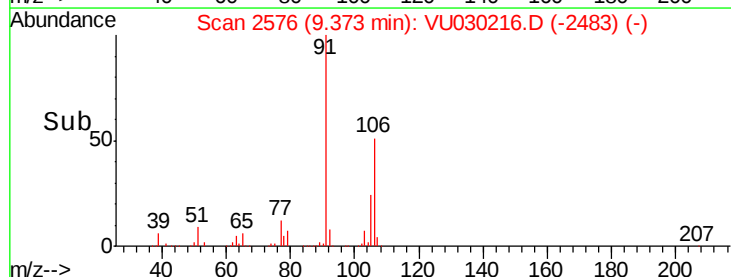
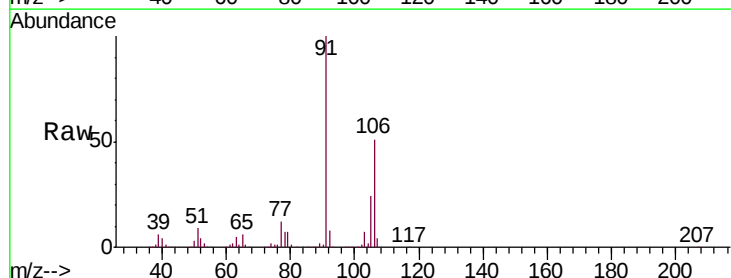
Acq: 20 Mar 2019 08:53

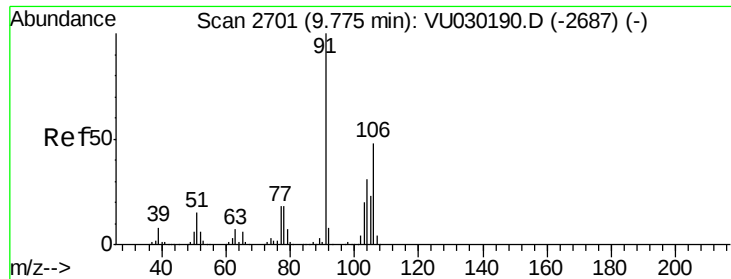
Tgt Ion: 106 Resp: 353304

Ion Ratio Lower Upper

106 100

91 195.0 138.2 256.6





#54

o-xylene

Concen: 49.623 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

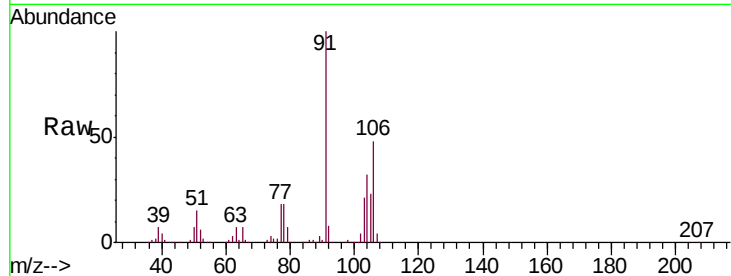
VSTD05047

Tgt Ion:106 Resp: 344083

Ion Ratio Lower Upper

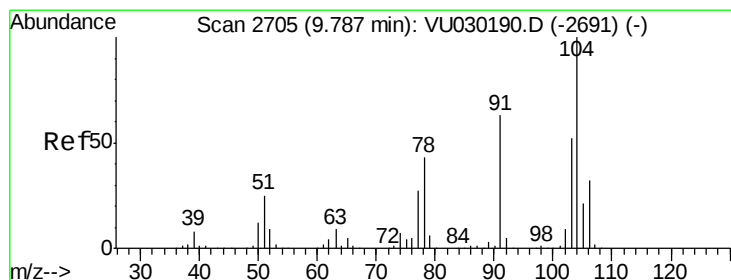
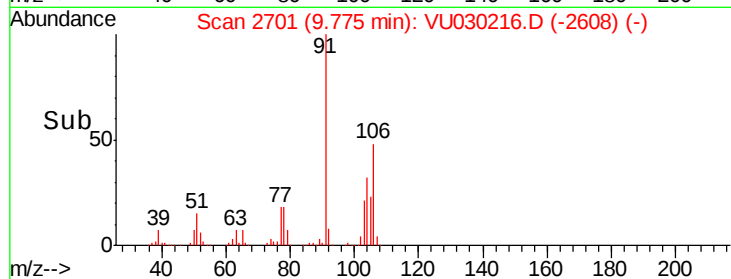
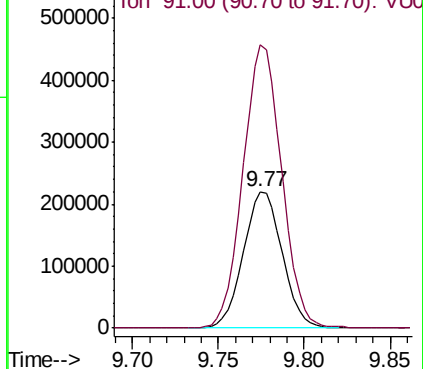
106 100

91 207.2 145.5 270.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.949 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU030216.D

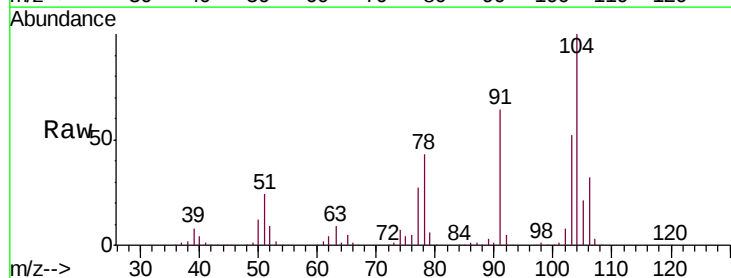
Acq: 20 Mar 2019 08:53

Tgt Ion:104 Resp: 598561

Ion Ratio Lower Upper

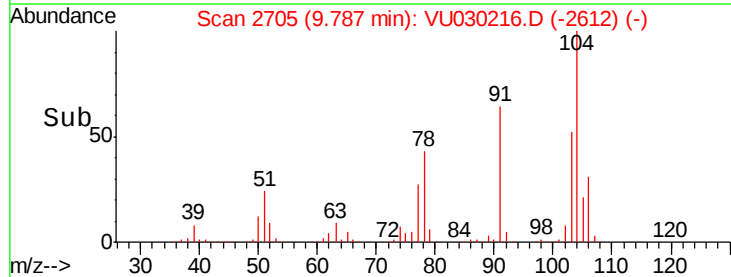
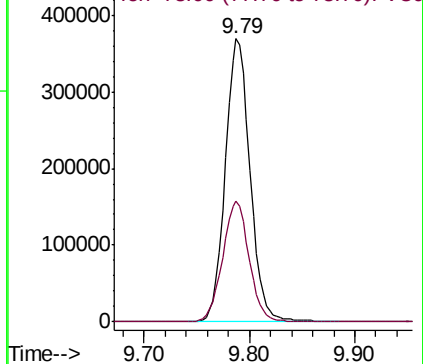
104 100

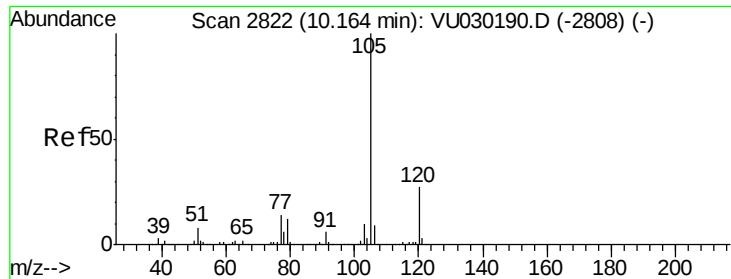
78 42.7 29.8 55.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.138 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

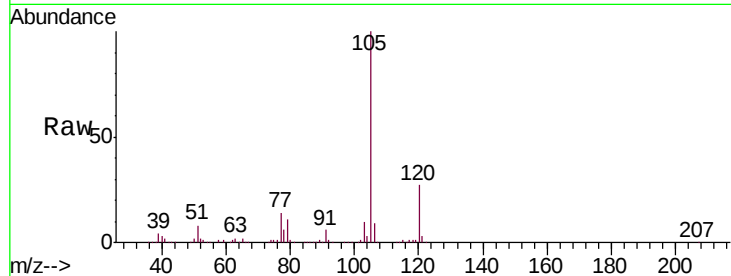
Tgt Ion:105 Resp: 898824

Ion Ratio Lower Upper

105 100

120 26.8 21.8 32.8

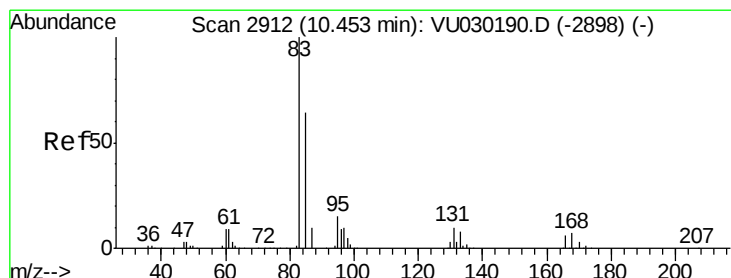
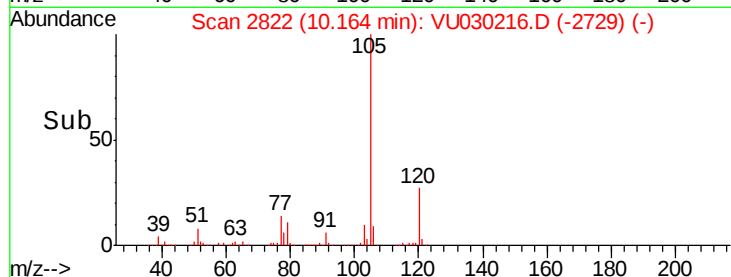
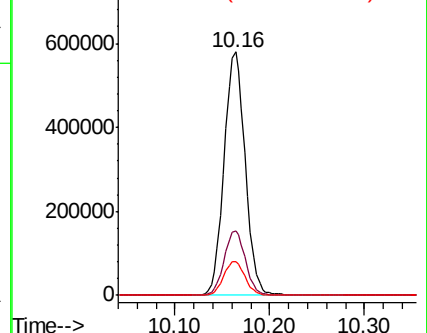
77 14.2 11.3 16.9



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: 47.793 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

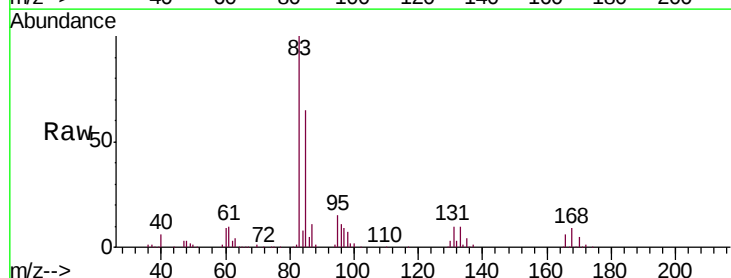
Tgt Ion: 83 Resp: 331843

Ion Ratio Lower Upper

83 100

85 65.3 45.7 84.9

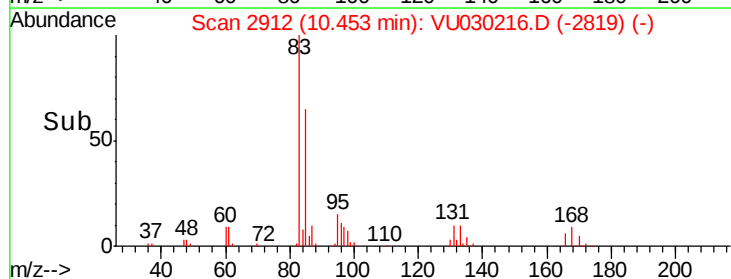
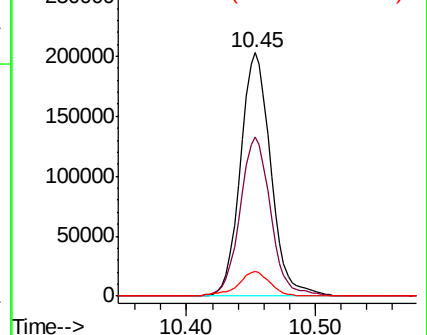
131 9.9 7.8 11.6

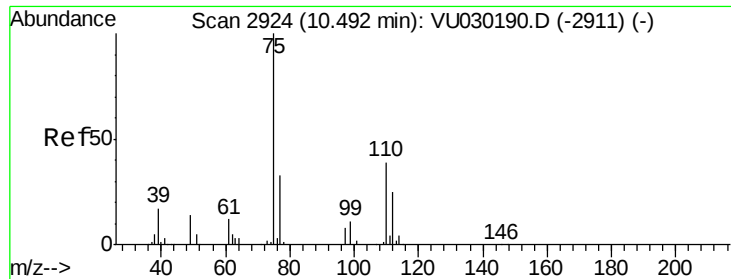


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.589 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

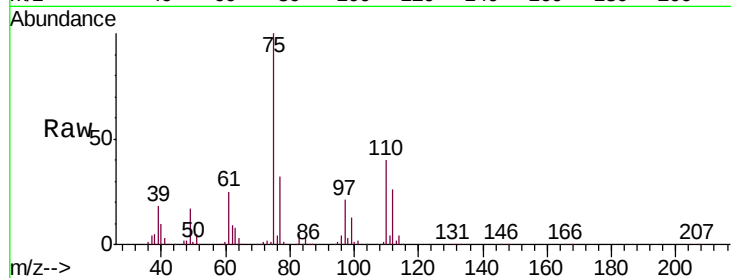
VSTD05047

Tgt Ion: 75 Resp: 249779

Ion Ratio Lower Upper

75 100

77 32.3 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.49

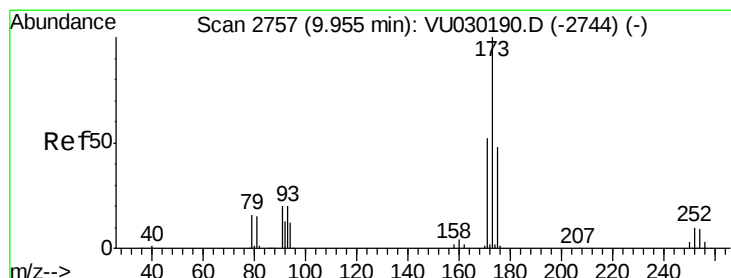
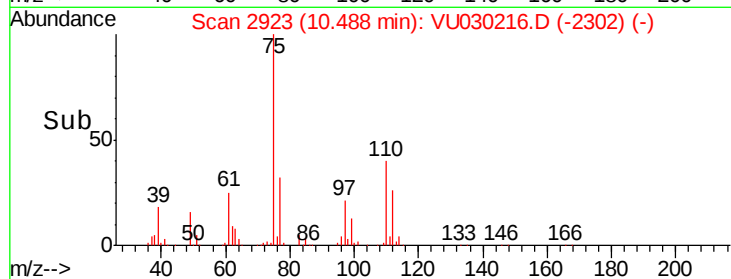
150000

100000

50000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 48.617 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

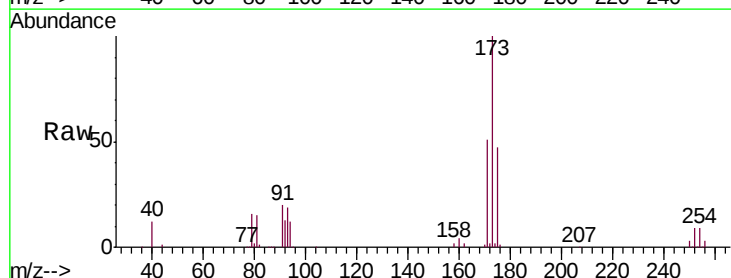
Tgt Ion: 173 Resp: 173071

Ion Ratio Lower Upper

173 100

175 49.0 38.9 58.3

254 8.8 7.4 11.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

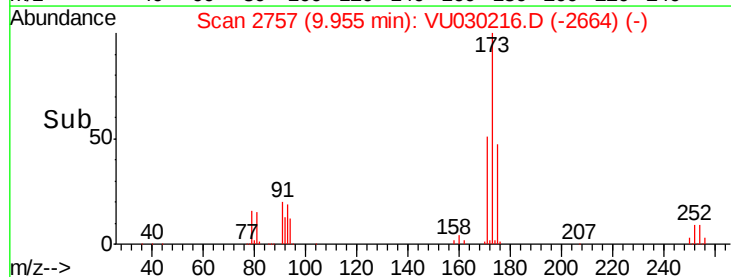
9.95

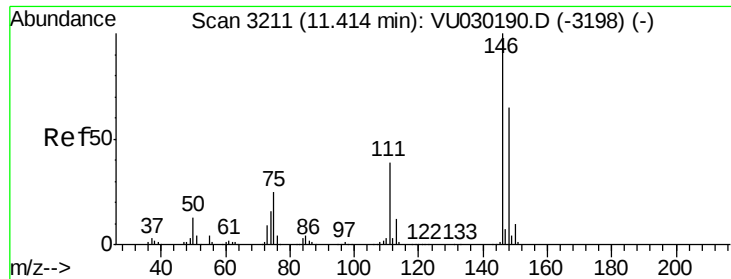
100000

50000

0

Time--> 9.90 9.95 10.00





#62

1,3-Dichlorobenzene

Concen: 48.552 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

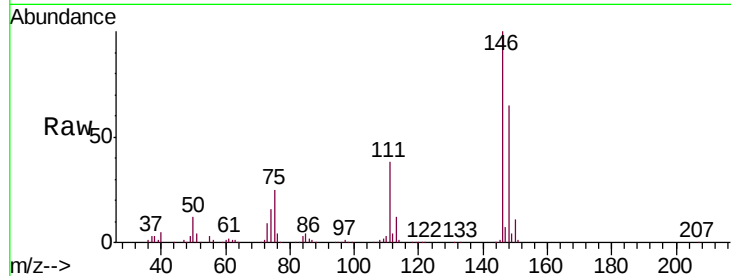
Tgt Ion:146 Resp: 427014

Ion Ratio Lower Upper

146 100

111 37.8 27.2 50.4

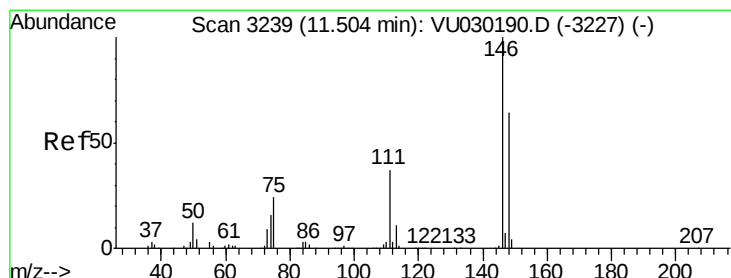
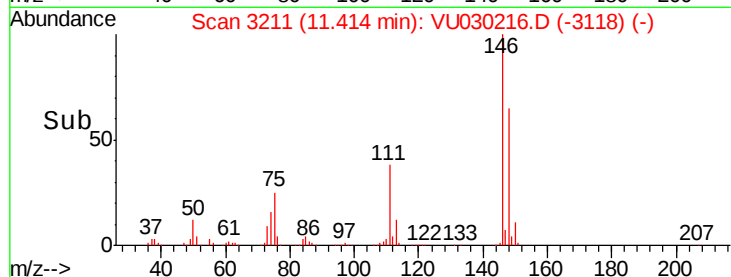
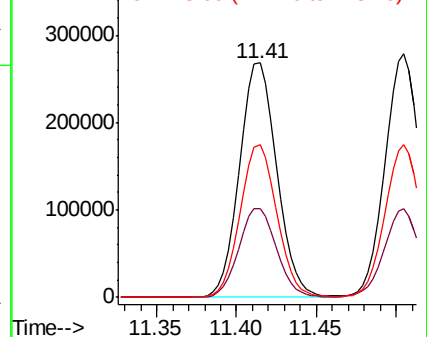
148 65.1 44.4 82.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.928 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

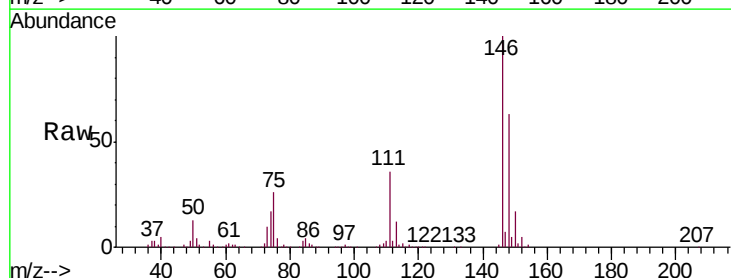
Tgt Ion:146 Resp: 437238

Ion Ratio Lower Upper

146 100

111 36.3 25.3 46.9

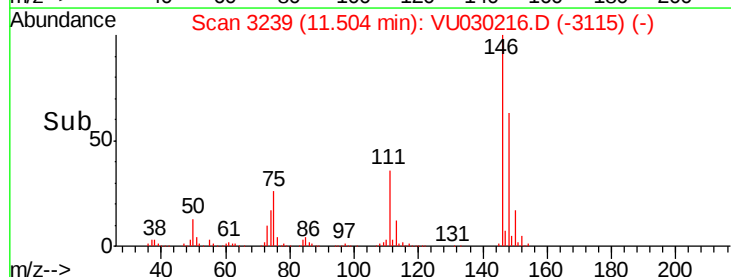
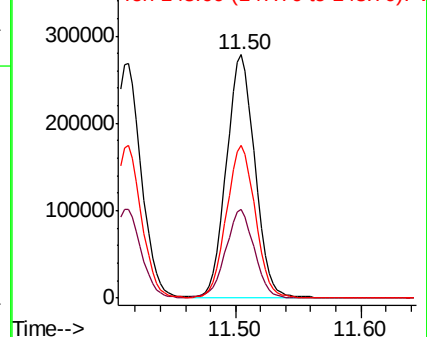
148 62.8 44.7 82.9

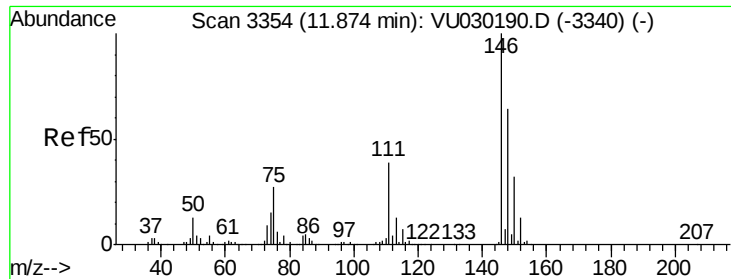


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

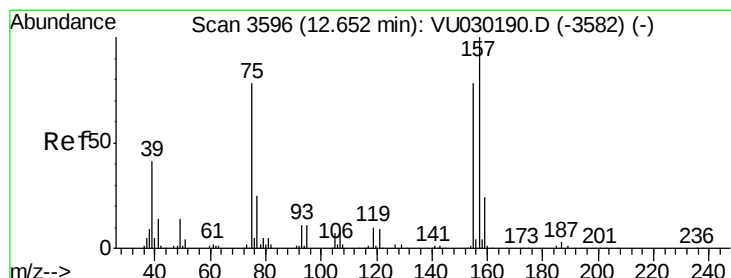
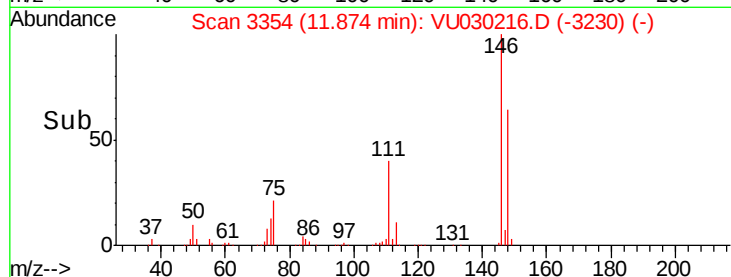
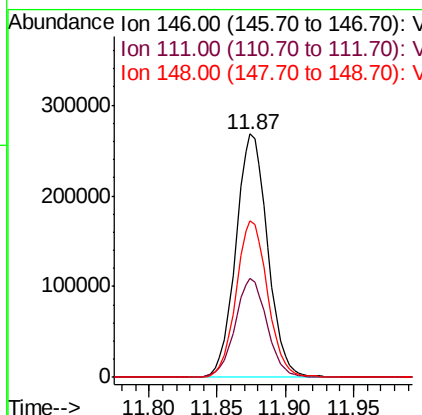
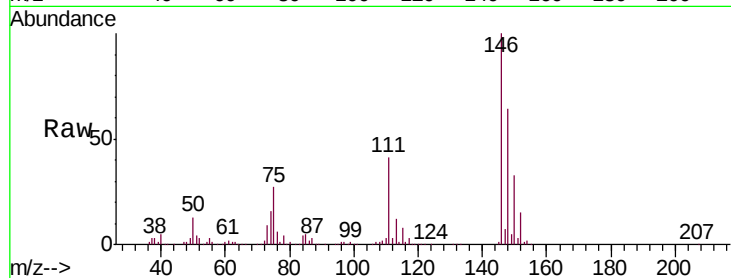




#65
 1,2-Dichlorobenzene
 Concen: 48.269 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

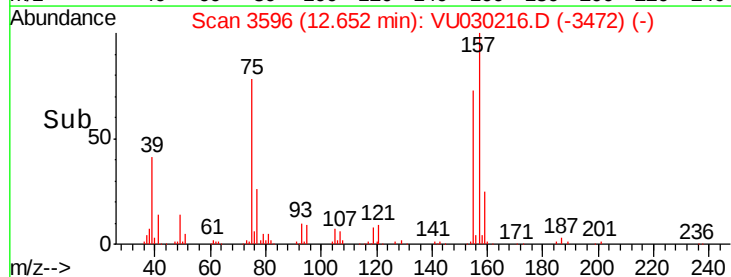
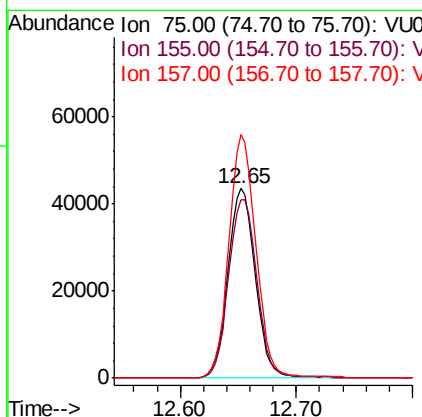
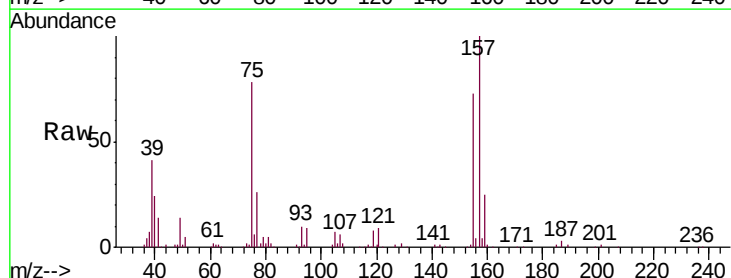
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

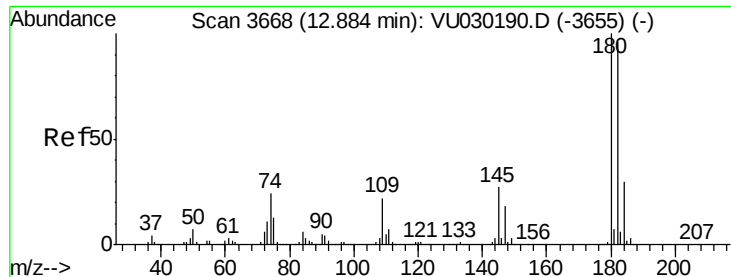
Tgt Ion: 146 Resp: 433735
 Ion Ratio Lower Upper
 146 100
 111 40.5 31.7 47.5
 148 64.4 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.414 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

Tgt Ion: 75 Resp: 71232
 Ion Ratio Lower Upper
 75 100
 155 94.2 80.7 121.1
 157 128.6 100.8 151.2

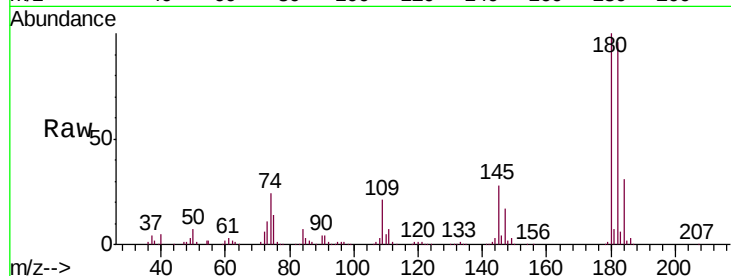




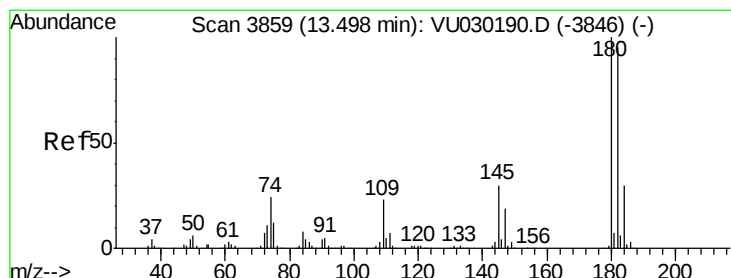
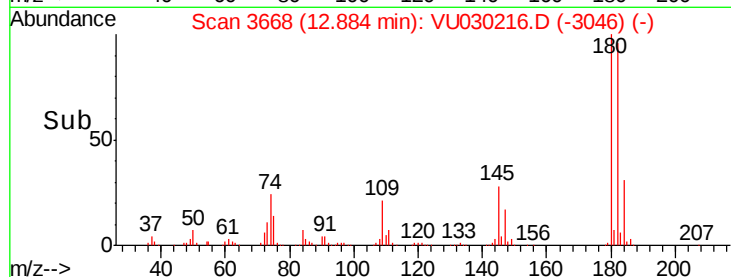
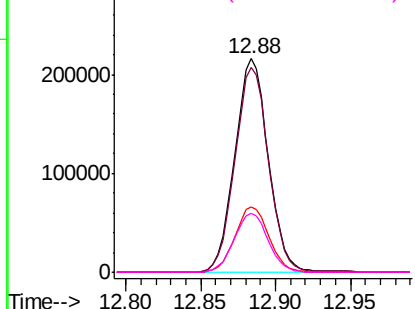
#67
 1,3,5-Trichlorobenzene
 Concen: 49.014 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion:	180	Resp:	336902
Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.0	114.0
184	31.0	24.2	36.4
145	28.2	22.1	33.1

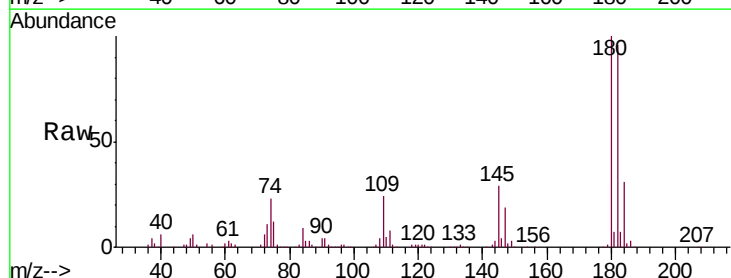


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

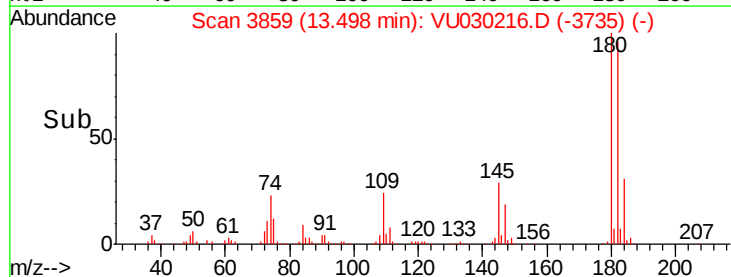
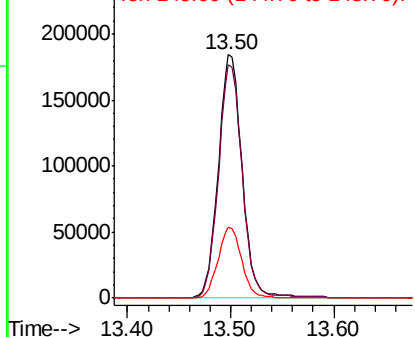


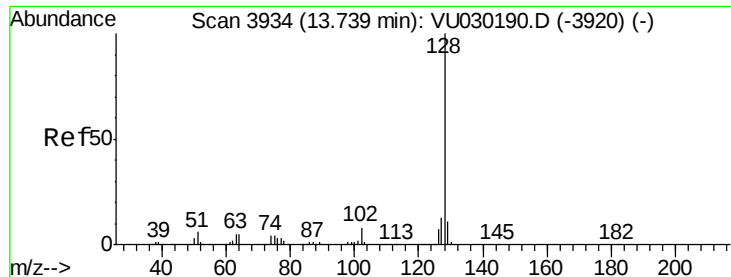
#68
 1,2,4-trichlorobenzene
 Concen: 48.759 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030216.D
 Acq: 20 Mar 2019 08:53

Tgt Ion:	180	Resp:	296380
Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.4	114.6
145	28.7	22.7	34.1



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: 45.767 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

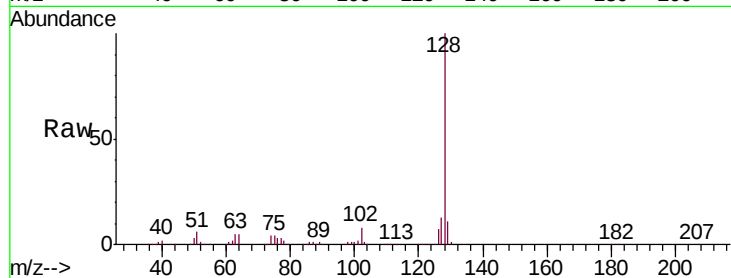
Tgt Ion:128 Resp: 882621

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.2

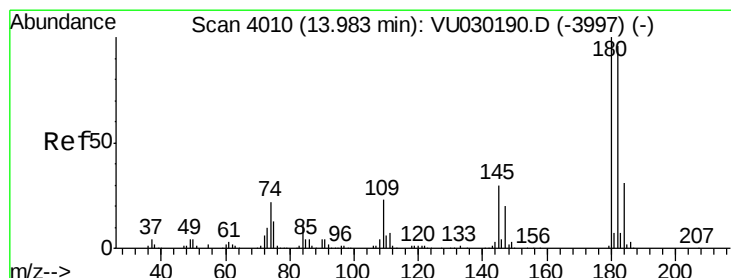
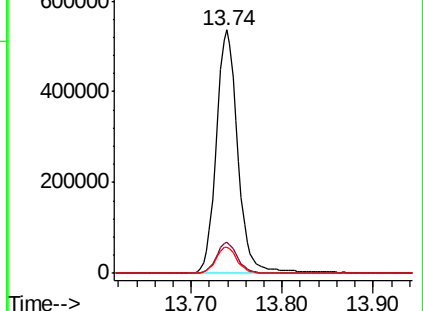
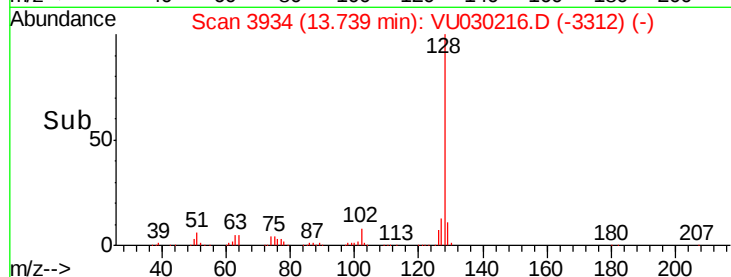
129 10.7 8.5 12.7



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: 48.493 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030216.D

Acq: 20 Mar 2019 08:53

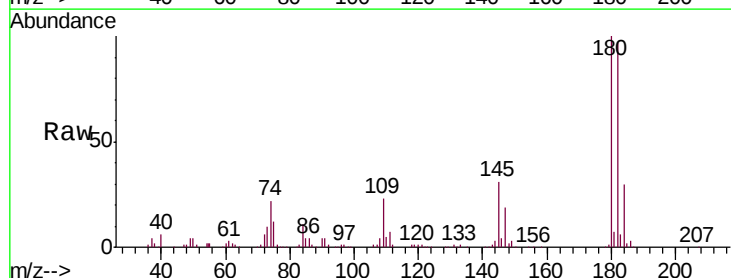
Tgt Ion:180 Resp: 307567

Ion Ratio Lower Upper

180 100

182 95.7 75.9 113.9

145 30.9 24.1 36.1



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

