

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032919\
 Data File : VU030531.D
 Acq On : 29 Mar 2019 09:03
 Operator : JC/SP
 Sample : VSTD0.501
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

Quant Time: Mar 30 00:09:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Mar 30 00:04:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	239547	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	219196	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	92740	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	8753	0.48	ug/L	0.00
7) Chloroethane-d5	1.68	69	6856	0.46	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	17645	0.47	ug/L	0.00
20) 2-Butanone-d5	4.22	46	20274	4.30	ug/L	0.00
24) Chloroform-d	4.64	84	14643	0.47	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	8053	0.49	ug/L	0.00
32) Benzene-d6	5.34	84	28812	0.49	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	9447	0.49	ug/L	0.00
41) Toluene-d8	7.56	98	24255	0.47	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.86	79	3520	0.49	ug/L	0.00
46) 2-Hexanone-d5	8.32	63	11119	3.56	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	6568	0.47	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	7768	0.50	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	12796	0.479 ug/L	100
3) Chloromethane	1.33	50	16192	0.518 ug/L	98
5) Vinyl chloride	1.40	62	13247	0.462 ug/L	96
6) Bromomethane	1.63	94	6758	0.482 ug/L	92
8) Chloroethane	1.70	64	8630	0.529 ug/L	95
9) Trichlorofluoromethane	1.89	101	14581	0.449 ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	8144	0.451 ug/L	98
12) 1,1-Dichloroethene	2.29	96	8397	0.480 ug/L	89
13) Acetone	2.36	43	7068	1.901 ug/L	93
14) Carbon disulfide	2.48	76	29387	0.479 ug/L	100
15) Methyl Acetate	2.63	43	3819	0.405 ug/L #	86
16) Methylene chloride	2.70	84	10974	0.539 ug/L	97
17) Methyl tert-butyl Ether	3.01	73	21699	0.464 ug/L	97
18) trans-1,2-Dichloroethene	2.98	96	8840	0.479 ug/L	94
19) 1,1-Dichloroethane	3.45	63	18992	0.487 ug/L	97
21) 2-Butanone	4.31	43	10617	1.813 ug/L #	60
22) cis-1,2-Dichloroethene	4.22	96	9805	0.498 ug/L	92
23) Bromochloromethane	4.55	128	3475	0.442 ug/L	97
25) Chloroform	4.67	83	16816	0.473 ug/L	96
27) 1,2-Dichloroethane	5.41	62	11232	0.486 ug/L #	92
29) 1,1,1-Trichloroethane	4.91	97	14307	0.512 ug/L	97
30) Cyclohexane	4.99	56	16936	0.502 ug/L	98
31) Carbon tetrachloride	5.13	117	11021	0.470 ug/L	95
33) Benzene	5.39	78	35734	0.482 ug/L	100
34) Trichloroethene	6.19	95	8747	0.471 ug/L	98
35) Methylcyclohexane	6.41	83	13449	0.454 ug/L	95
37) 1,2-Dichloropropane	6.43	63	10478	0.513 ug/L #	96
38) Bromodichloromethane	6.76	83	11649	0.489 ug/L	95
39) cis-1,3-Dichloropropene	7.27	75	12523	0.459 ug/L	97
40) 4-Methyl-2-pentanone	7.47	43	54745	4.301 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

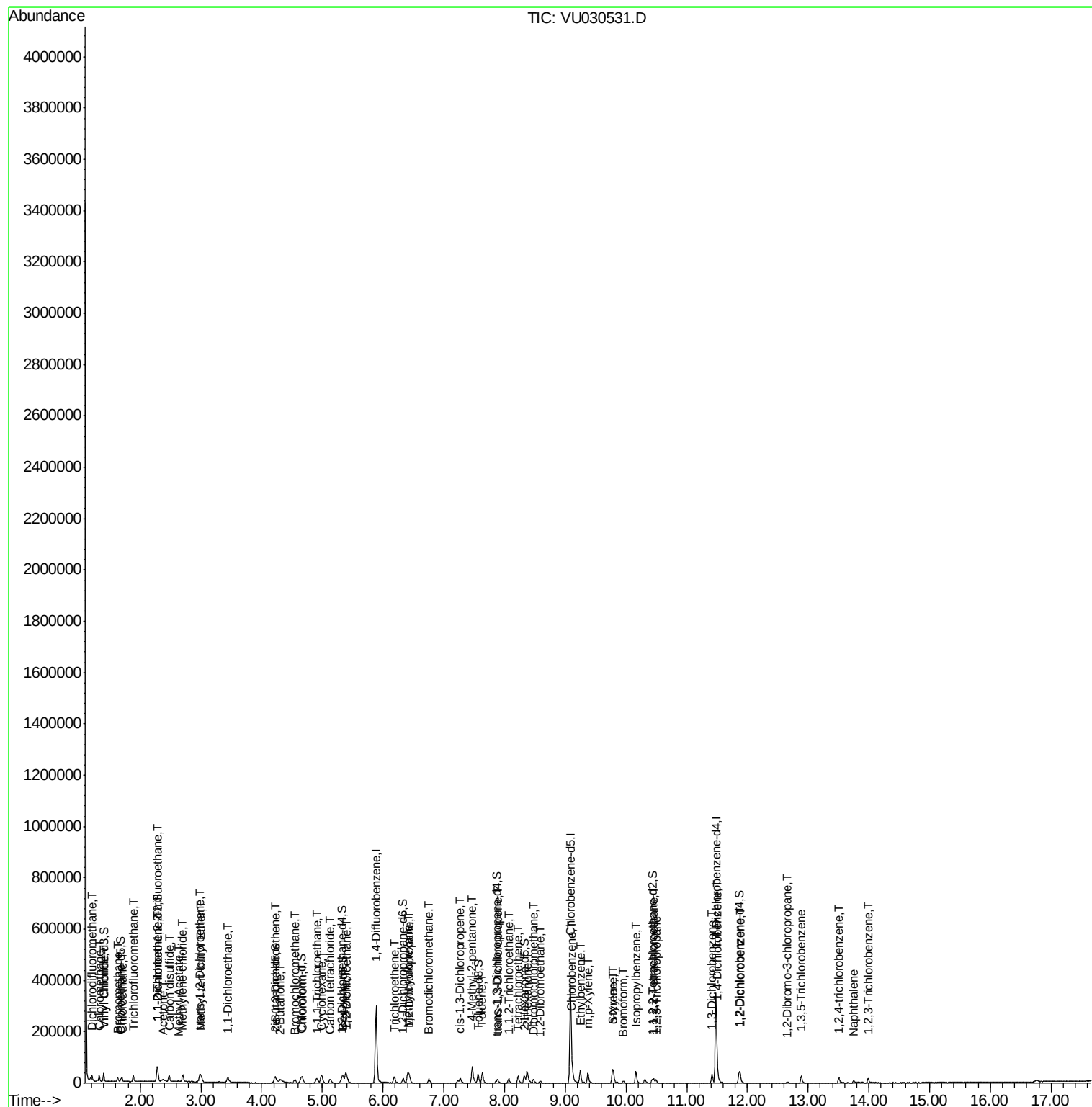
42) Toluene	7.64	91	32765	0.441	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	8837	0.418	ug/L	96
45) 1,1,2-Trichloroethane	8.07	97	5587	0.459	ug/L	93
47) Tetrachloroethene	8.22	164	6016	0.462	ug/L	96
48) 2-Hexanone	8.37	43	35746	4.053	ug/L	97
49) Dibromochloromethane	8.48	129	7155	0.492	ug/L	94
50) 1,2-Dibromoethane	8.59	107	5017	0.442	ug/L #	91
51) Chlorobenzene	9.12	112	23382	0.510	ug/L	96
52) Ethylbenzene	9.25	91	34720	0.438	ug/L	96
53) m,p-Xylene	9.37	106	11995	0.433	ug/L	97
54) o-Xylene	9.78	106	11175	0.411	ug/L	93
55) Styrene	9.79	104	17794	0.388	ug/L	95
56) Isopropylbenzene	10.16	105	29205	0.402	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	7619	0.471	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	5680	0.498	ug/L	97
61) Bromoform	9.95	173	3260	0.464	ug/L #	96
62) 1,3-Dichlorobenzene	11.42	146	14583	0.498	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	16625	0.542	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	15260	0.536	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.66	75	945	0.429	ug/L	99
67) 1,3,5-Trichlorobenzene	12.89	180	9889	0.453	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	6907	0.410	ug/L	98
69) Naphthalene	13.75	128	9392	0.347	ug/L #	91
70) 1,2,3-Trichlorobenzene	13.99	180	5758	0.366	ug/L	88

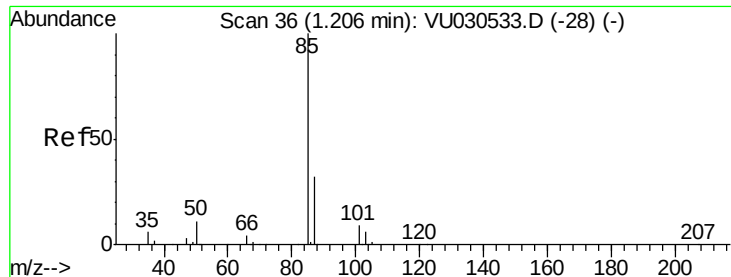
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.479 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

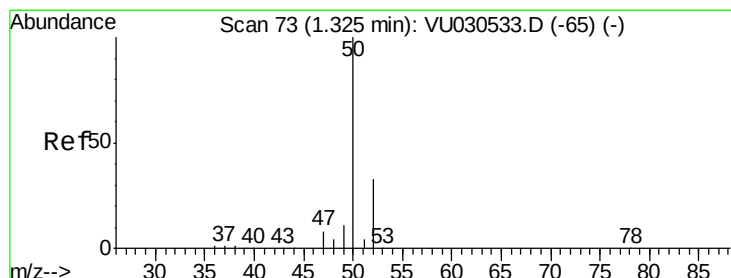
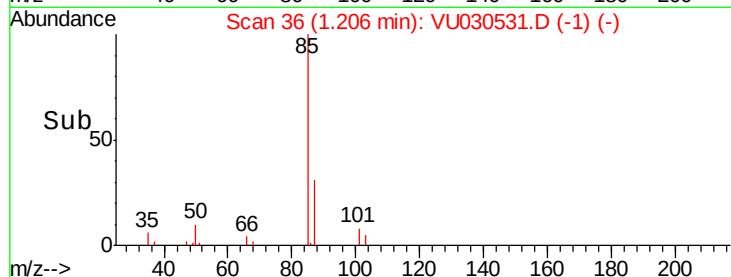
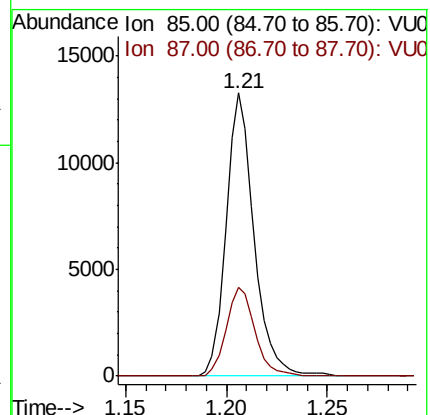
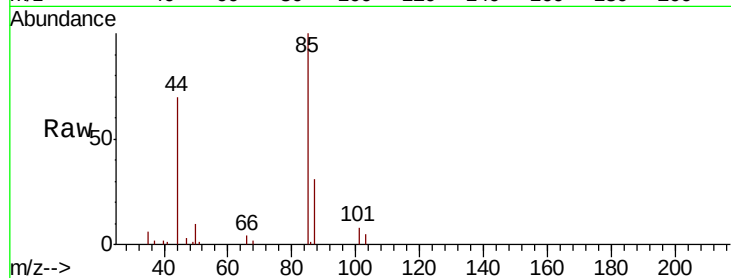
VSTD0.501

Tot Ion: 85 Resp: 12796

Ion Ratio Lower Upper

85 100

87 32.1 25.8 38.8



#3

Chloromethane

Concen: 0.518 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU030531.D

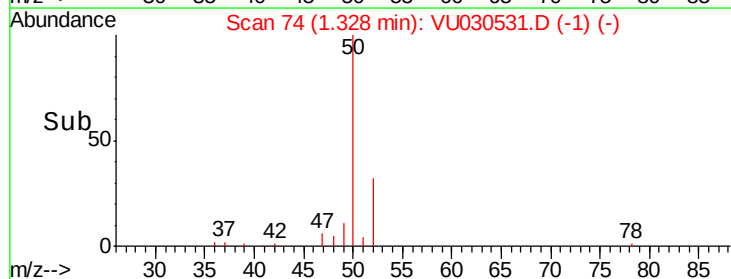
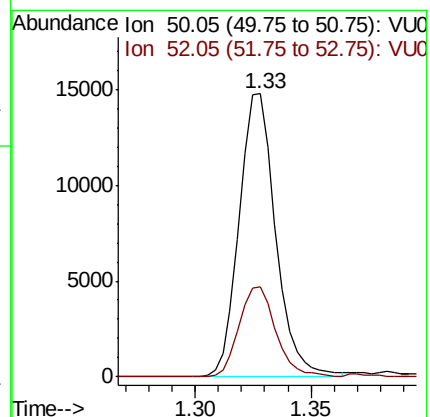
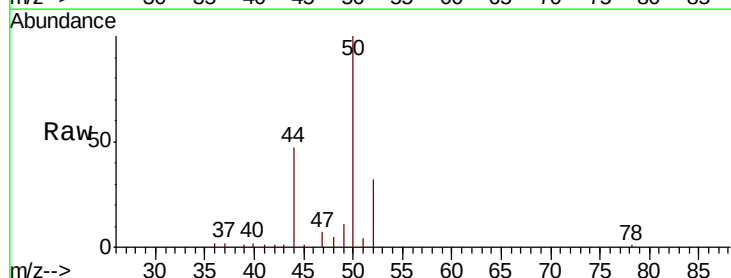
Acq: 29 Mar 2019 09:03

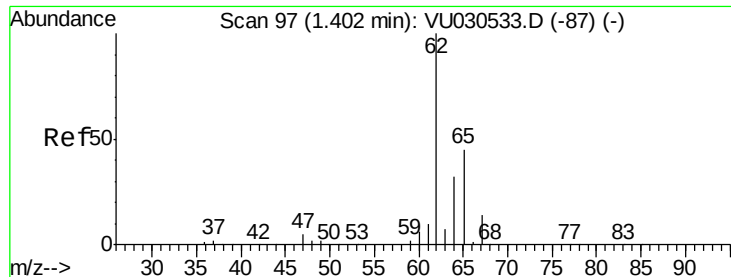
Tgt Ion: 50 Resp: 16192

Ion Ratio Lower Upper

50 100

52 31.7 22.9 42.5





#5

Vinyl chloride

Concen: 0.462 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

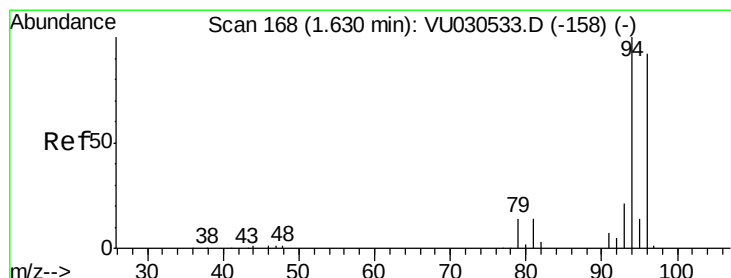
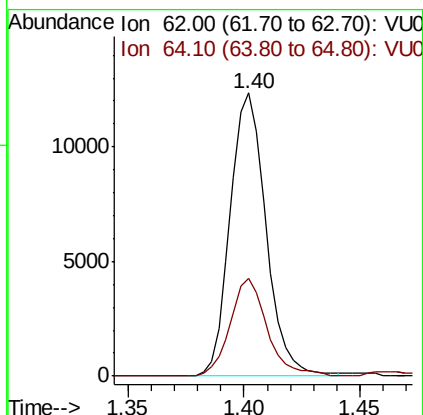
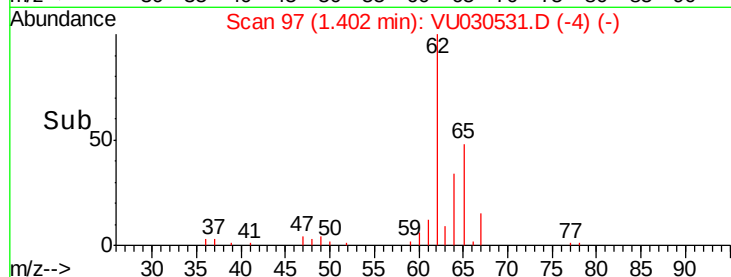
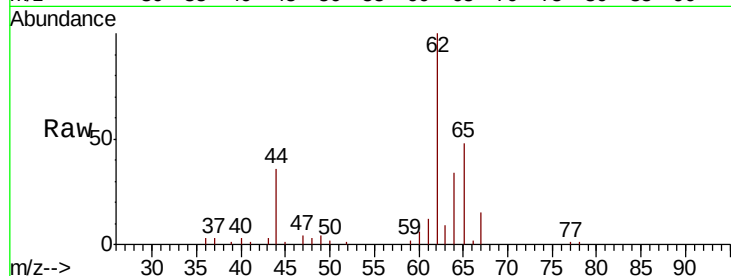
VSTD0.501

Tot Ion: 62 Resp: 13247

Ion Ratio Lower Upper

62 100

64 34.4 22.5 41.9



#6

Bromomethane

Concen: 0.482 ug/L

RT: 1.63 min Scan# 168

Delta R.T. -0.00 min

Lab File: VU030531.D

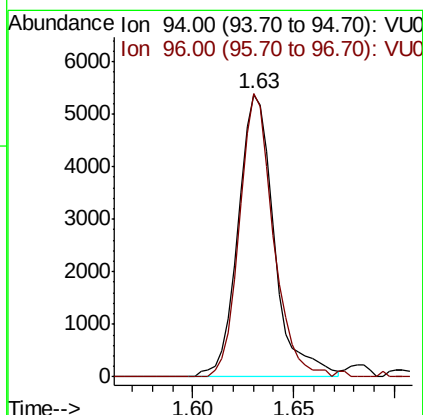
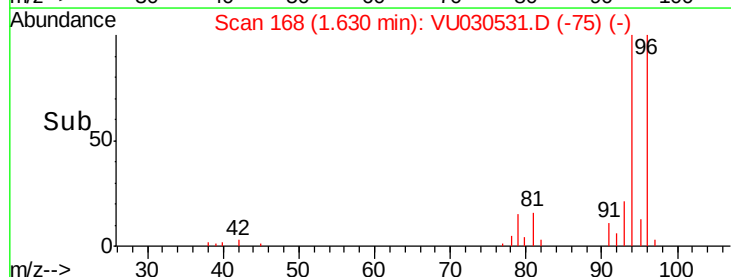
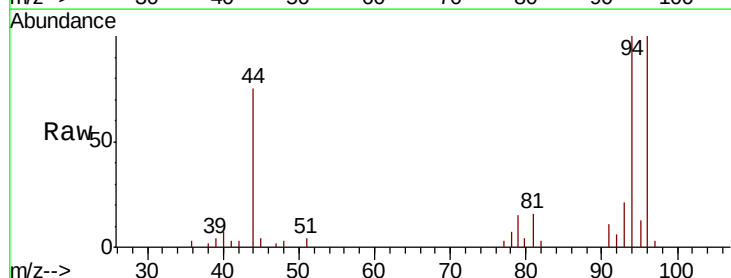
Acq: 29 Mar 2019 09:03

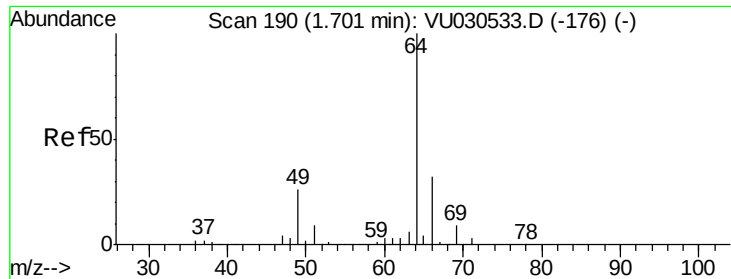
Tgt Ion: 94 Resp: 6758

Ion Ratio Lower Upper

94 100

96 100.3 64.6 120.0





#8

Chloroethane

Concen: 0.529 ug/L

RT: 1.70 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

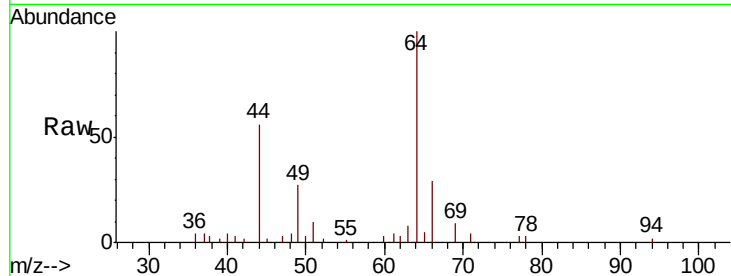
VSTD0.501

Tot Ion: 64 Resp: 8630

Ion Ratio Lower Upper

64 100

66 29.0 22.1 41.1



Abundance Ion 64.10 (63.80 to 64.80): VU030533.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU030533.D (-176) (-)

1.70

6000

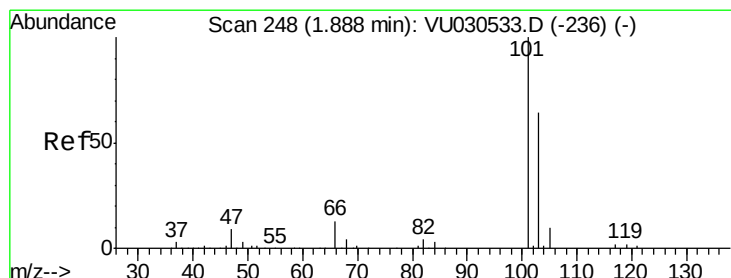
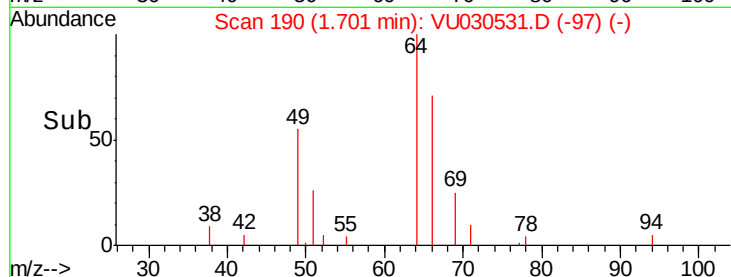
4000

2000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 0.449 ug/L

RT: 1.89 min Scan# 248

Delta R.T. -0.00 min

Lab File: VU030531.D

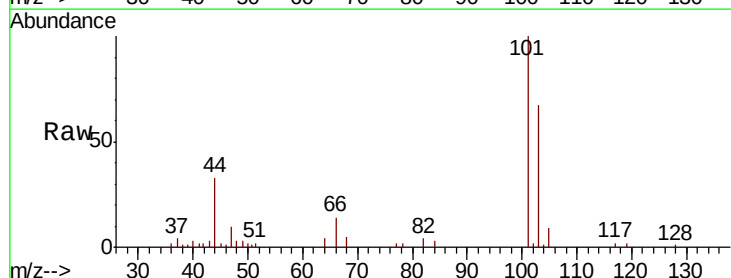
Acq: 29 Mar 2019 09:03

Tgt Ion: 101 Resp: 14581

Ion Ratio Lower Upper

101 100

103 70.7 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VU030533.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU030533.D (-236) (-)

1.89

12000

10000

8000

6000

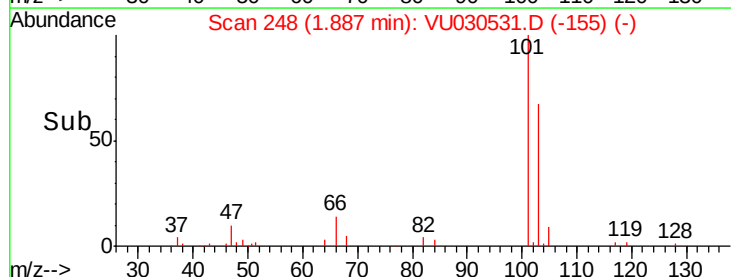
4000

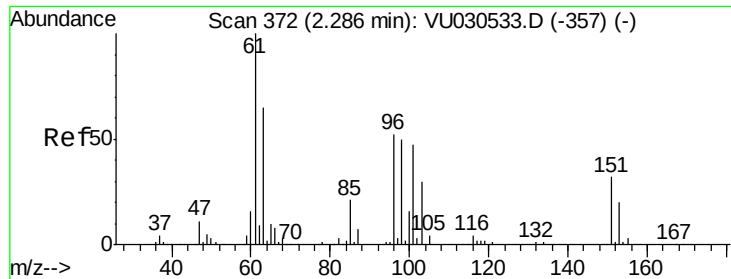
2000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 0.451 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.501

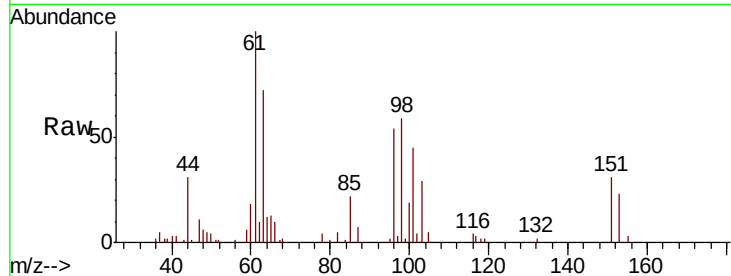
Tot Ion:101 Resp: 8144

Ion Ratio Lower Upper

101 100

85 47.6 35.3 52.9

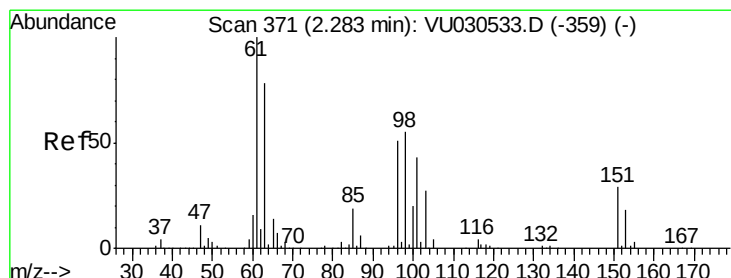
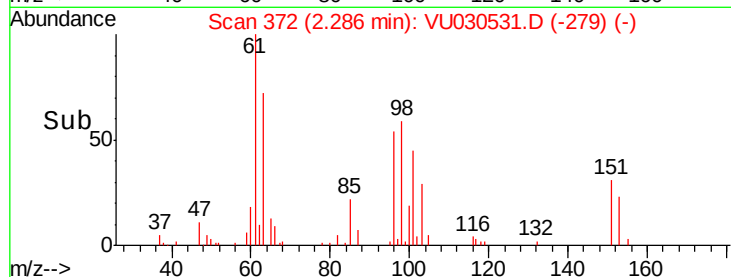
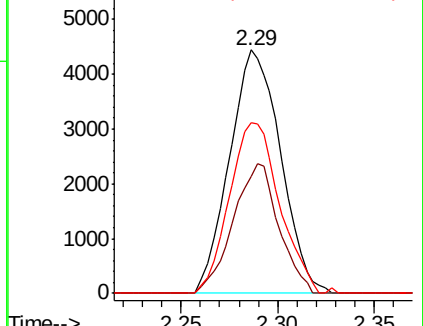
151 68.8 55.2 82.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.480 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

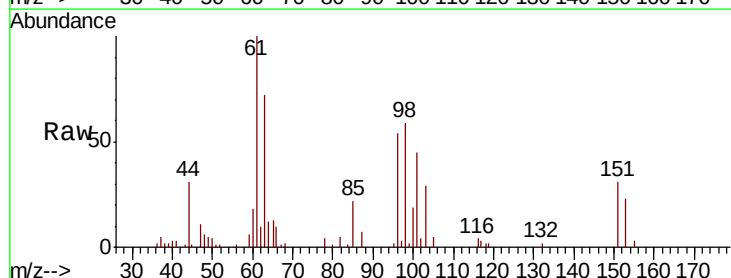
Tgt Ion: 96 Resp: 8397

Ion Ratio Lower Upper

96 100

61 185.1 136.9 254.3

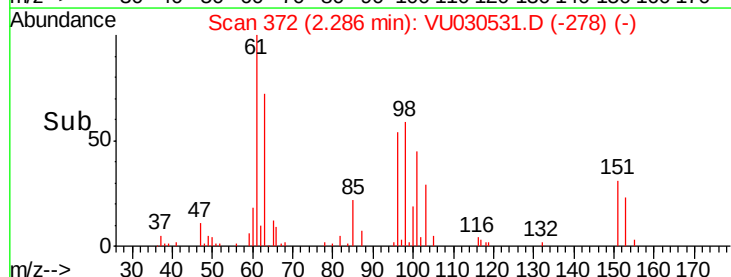
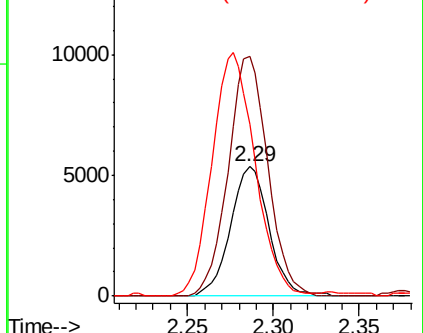
63 133.1 107.7 200.1

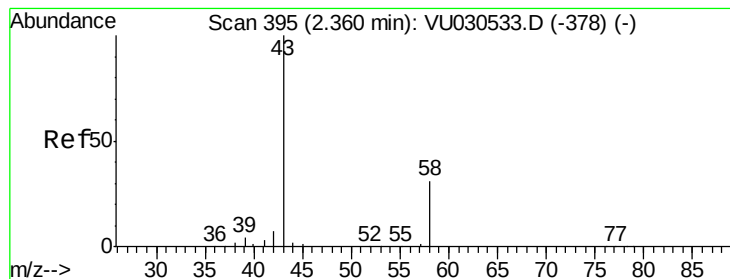


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.901 ug/L

RT: 2.36 min Scan# 395

Delta R.T. -0.00 min

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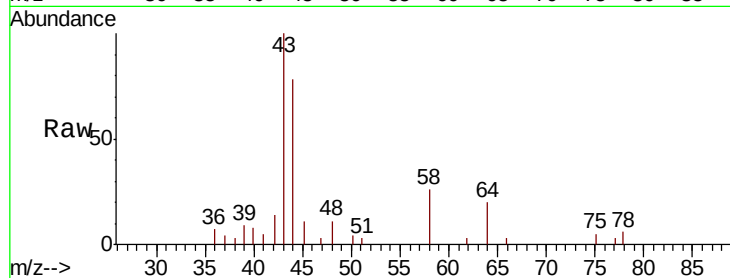
VSTD0.501

Tot Ion: 43 Resp: 7068

Ion Ratio Lower Upper

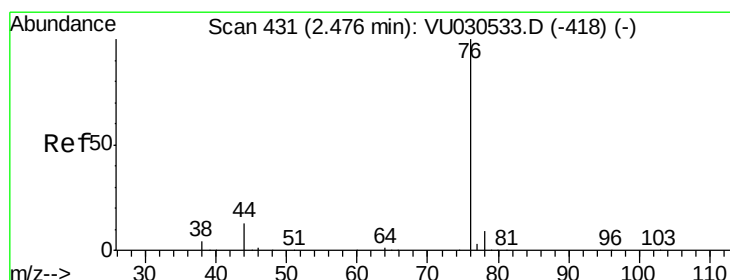
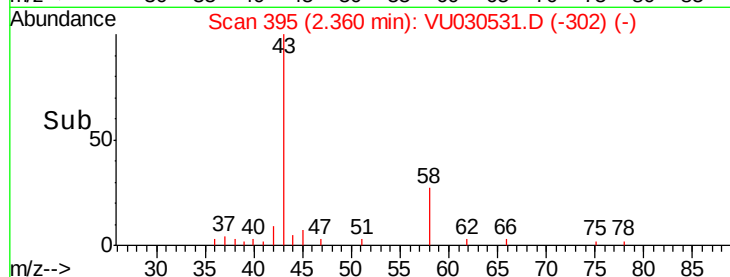
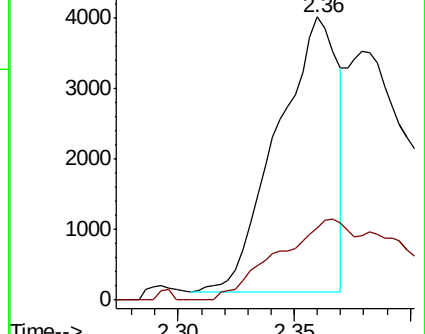
43 100

58 35.5 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU030531.D (-302) (-)

Ion 58.05 (57.75 to 58.75): VU030531.D (-302) (-)



#14

Carbon disulfide

Concen: 0.479 ug/L

RT: 2.48 min Scan# 432

Delta R.T. 0.00 min

Lab File: VU030531.D

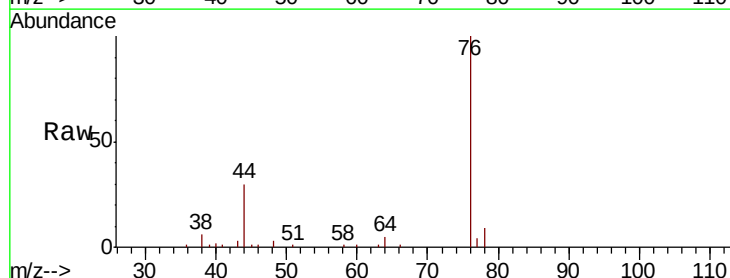
Acq: 29 Mar 2019 09:03

Tgt Ion: 76 Resp: 29387

Ion Ratio Lower Upper

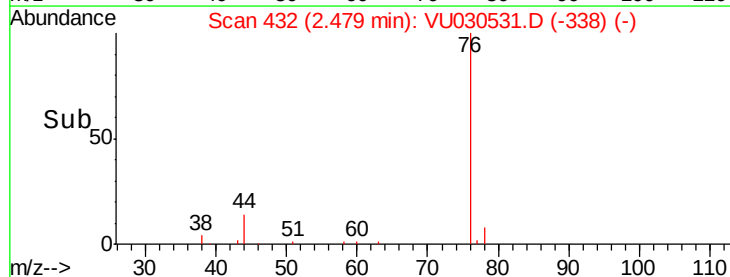
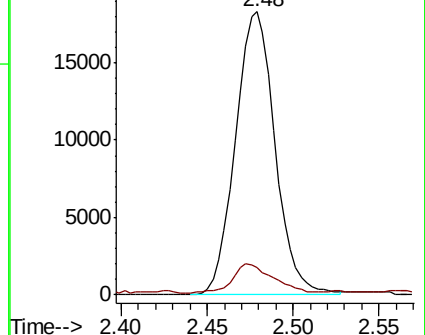
76 100

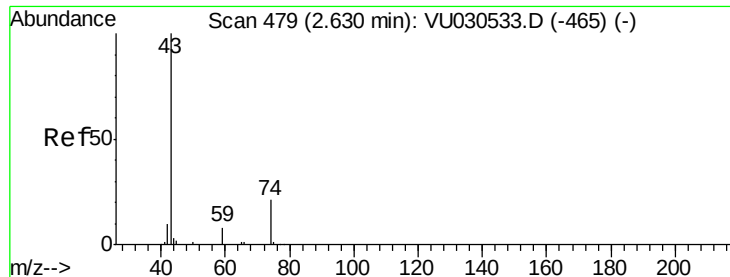
78 9.5 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU030531.D (-338) (-)

Ion 78.00 (77.70 to 78.70): VU030531.D (-338) (-)

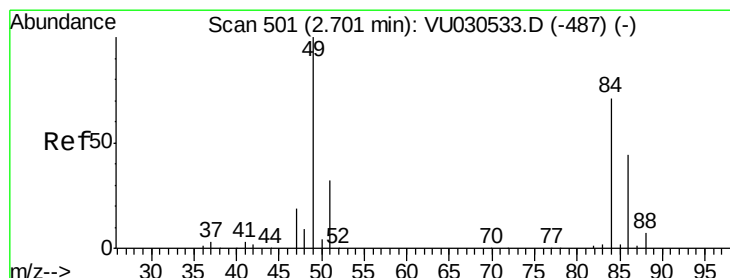
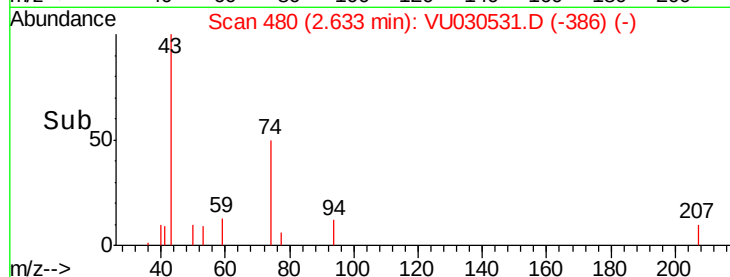
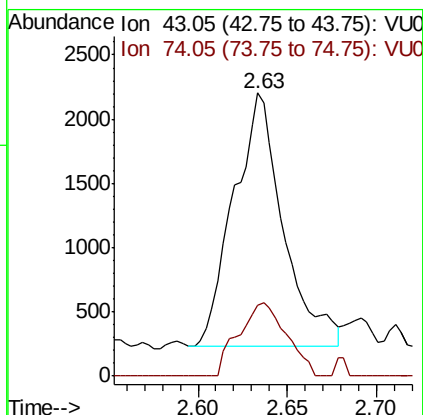
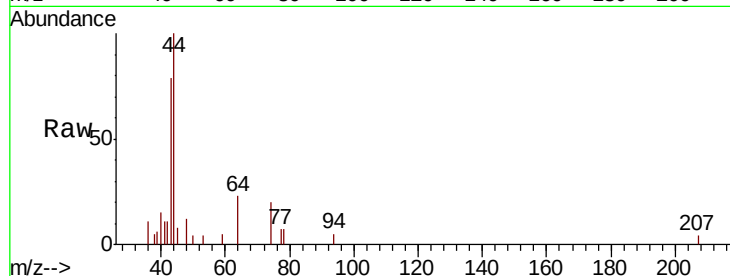




#15
Methyl Acetate
Concen: 0.405 ug/L
RT: 2.63 min Scan# 480
Delta R.T. 0.00 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

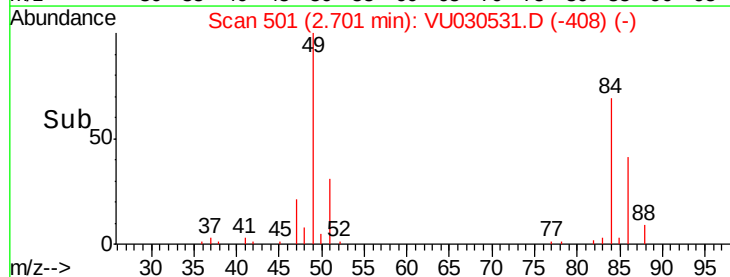
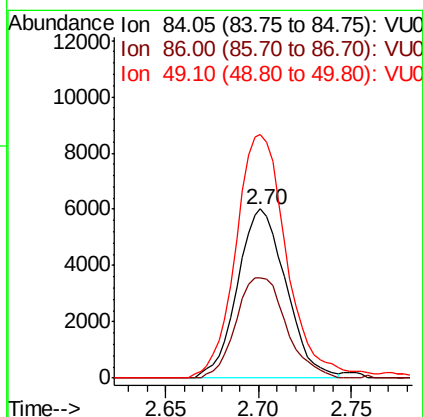
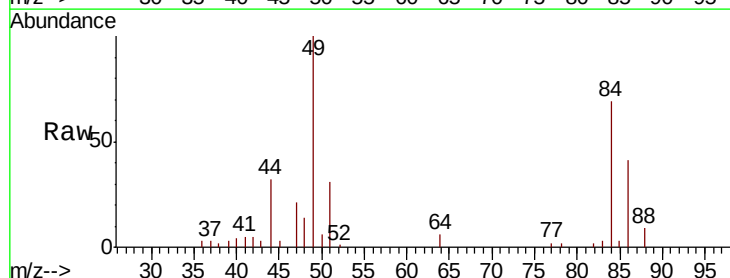
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.501

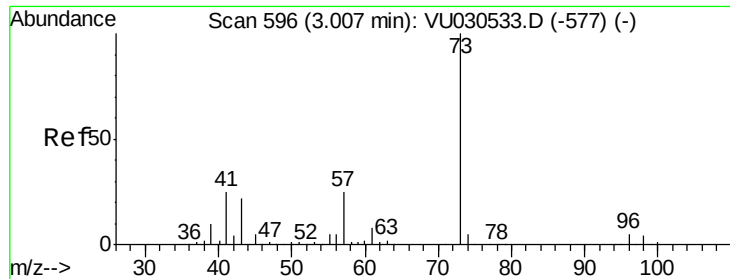
Tot Ion: 43 Resp: 3819
Ion Ratio Lower Upper
43 100
74 28.0 17.1 25.7#



#16
Methylene chloride
Concen: 0.539 ug/L
RT: 2.70 min Scan# 501
Delta R.T. -0.00 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

Tgt Ion: 84 Resp: 10974
Ion Ratio Lower Upper
84 100
86 59.4 43.4 80.6
49 144.0 98.5 182.9

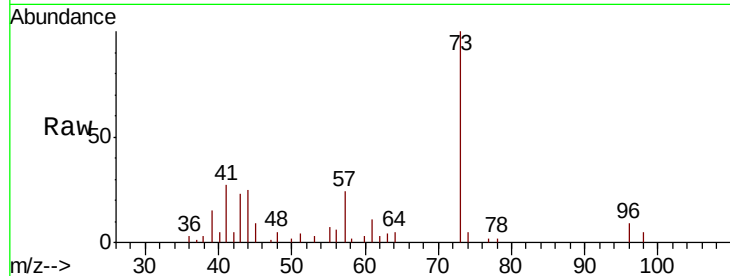




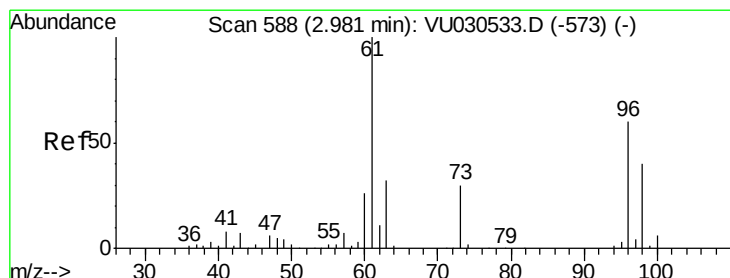
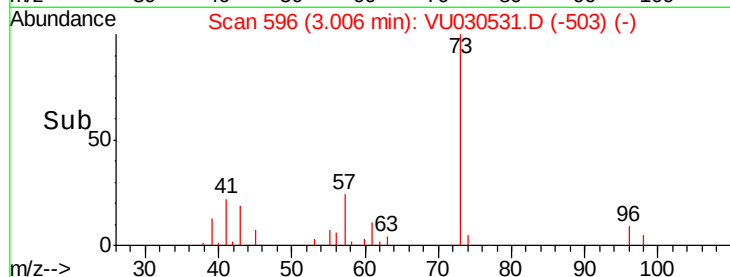
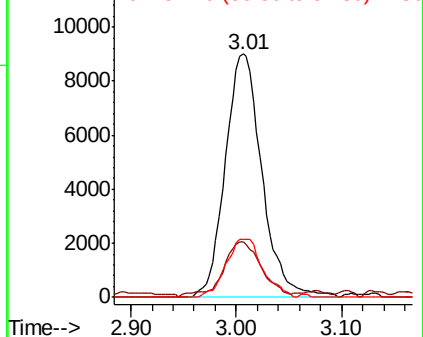
#17
Methyl tert-butyl Ether
Concen: 0.464 ug/L
RT: 3.01 min Scan# 596
Delta R.T. -0.00 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.501

Tot Ion: 73 Resp: 21699
Ion Ratio Lower Upper
73 100
43 24.0 17.0 25.4
57 23.9 19.4 29.2

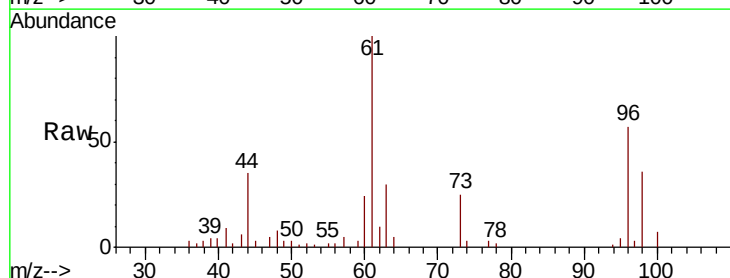


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

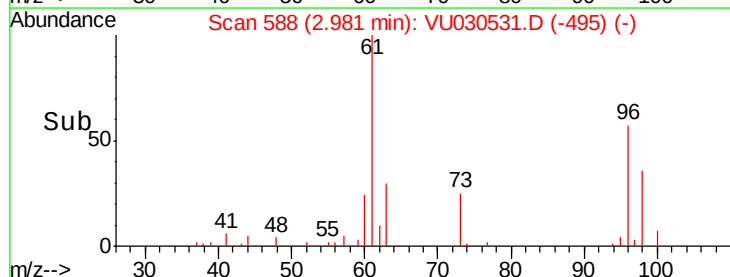
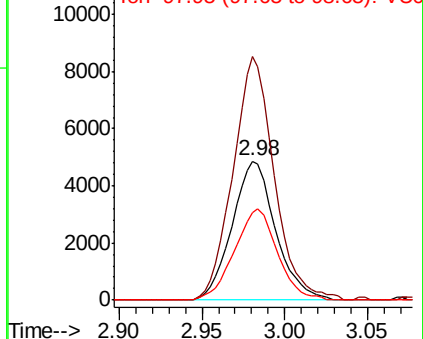


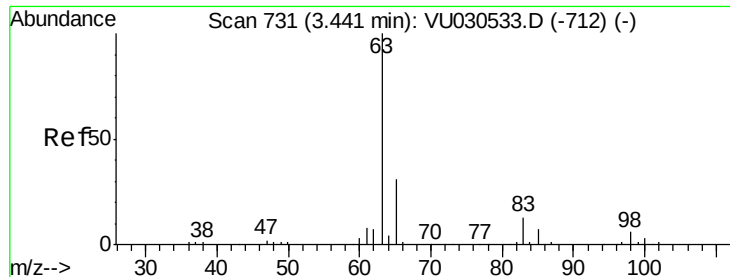
#18
trans-1,2-Dichloroethene
Concen: 0.479 ug/L
RT: 2.98 min Scan# 588
Delta R.T. -0.00 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

Tgt Ion: 96 Resp: 8840
Ion Ratio Lower Upper
96 100
61 175.6 116.8 216.8
98 63.4 46.8 87.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.487 ug/L

RT: 3.45 min Scan# 733

Delta R.T. 0.01 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampled :

VSTD0.501

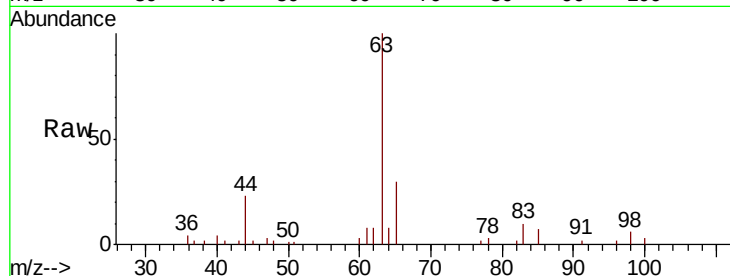
Tot Ion: 63 Resp: 18992

Ion Ratio Lower Upper

63 100

65 30.1 21.6 40.0

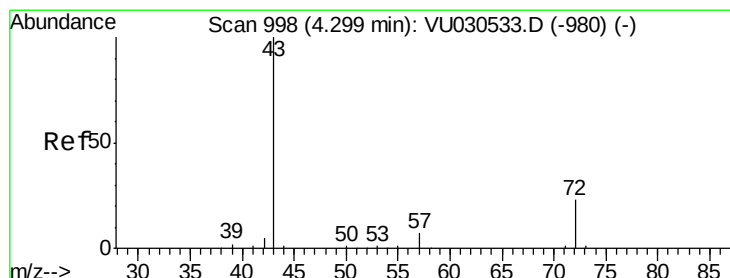
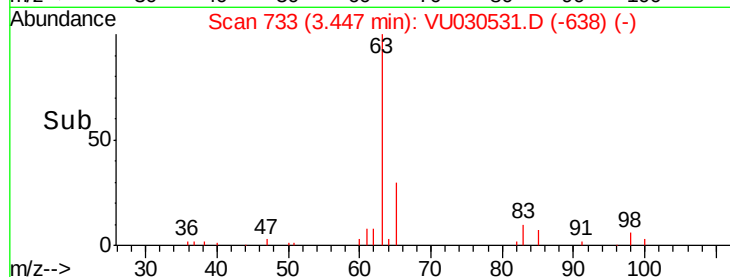
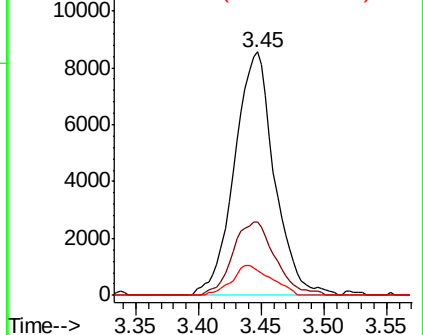
83 10.2 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



#21

2-Butanone

Concen: 1.813 ug/L

RT: 4.31 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VU030531.D

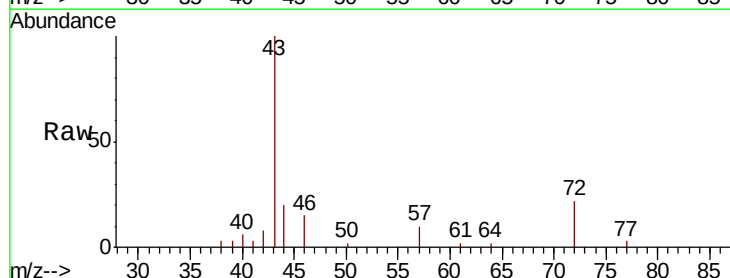
Acq: 29 Mar 2019 09:03

Tgt Ion: 43 Resp: 10617

Ion Ratio Lower Upper

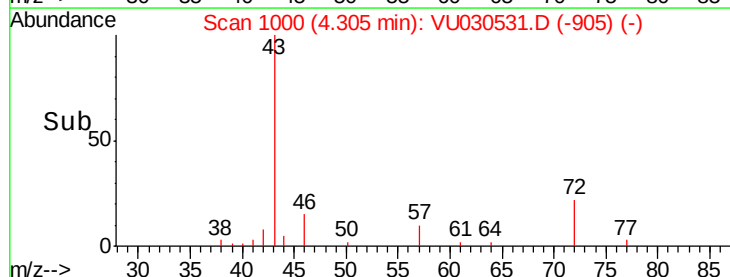
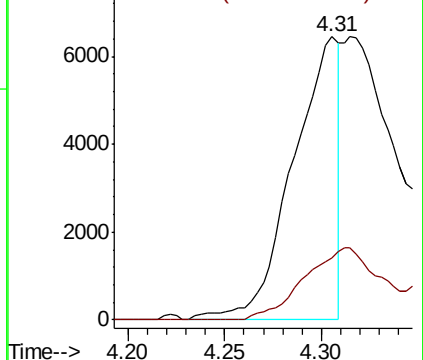
43 100

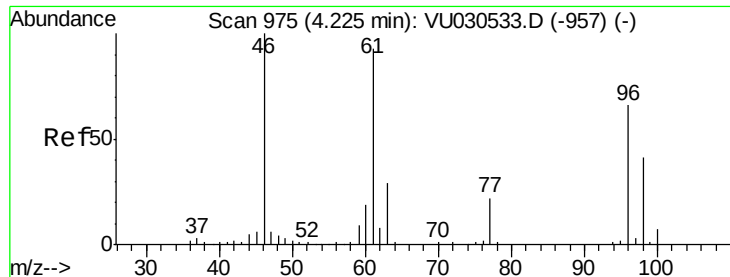
72 41.3 11.2 33.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0



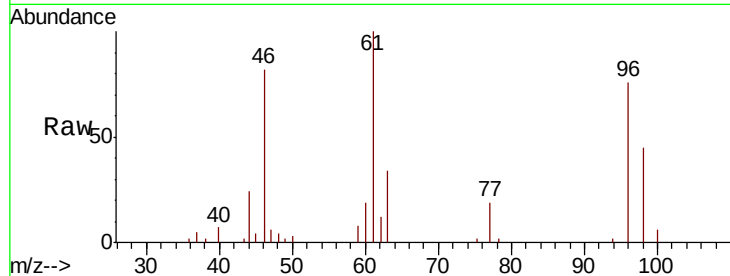


#22

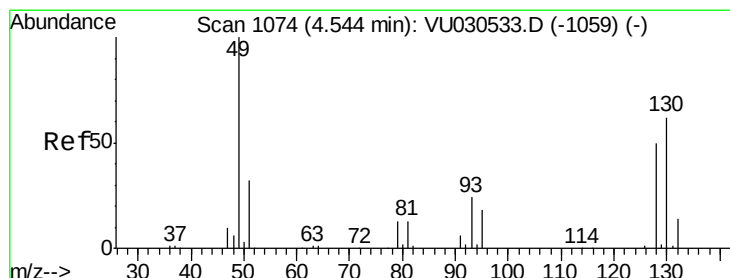
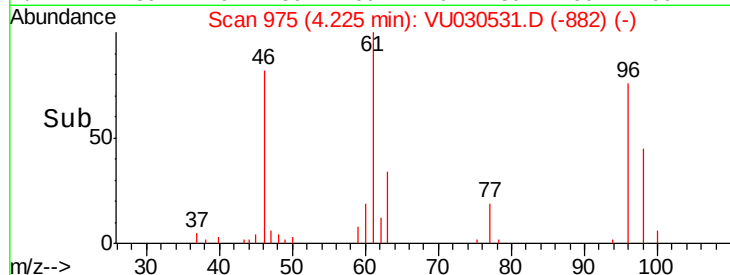
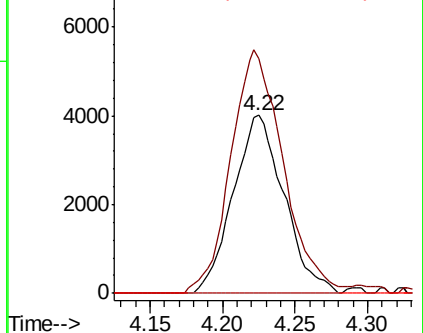
cis-1,2-Dichloroethene
 Concen: 0.498 ug/L
 RT: 4.22 min Scan# 975
 Delta R.T. -0.00 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

Tot Ion: 96 Resp: 9805
 Ion Ratio Lower Upper
 96 100
 61 131.9 98.9 183.7
 68 0.0 0.0 0.0



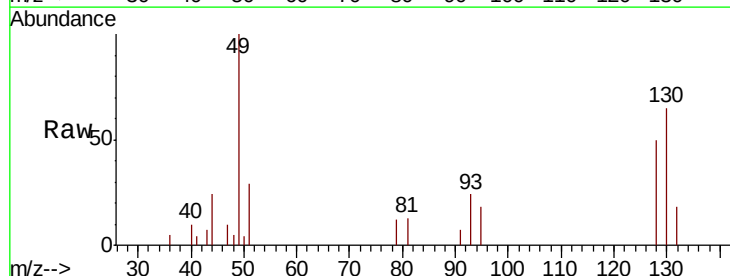
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



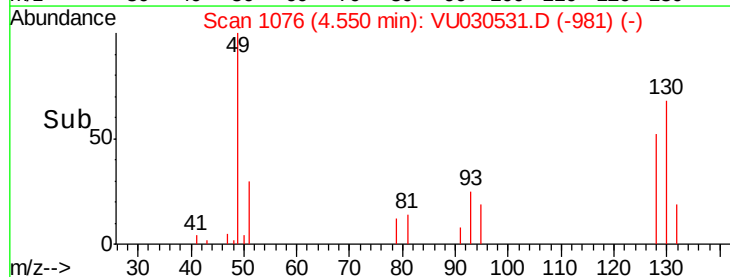
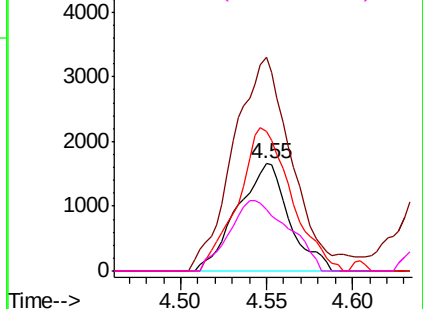
#23

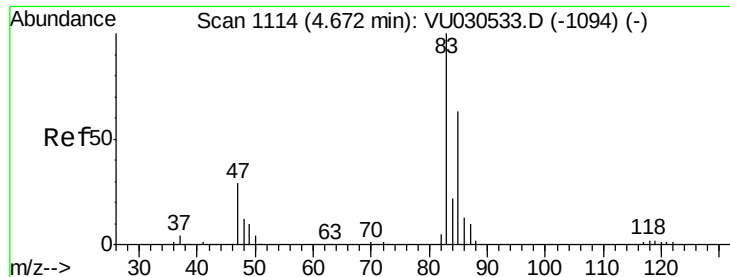
Bromochloromethane
 Concen: 0.442 ug/L
 RT: 4.55 min Scan# 1076
 Delta R.T. 0.01 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Tgt Ion: 128 Resp: 3475
 Ion Ratio Lower Upper
 128 100
 49 199.5 140.6 261.2
 130 130.2 87.3 162.1
 51 57.8 51.8 77.6



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

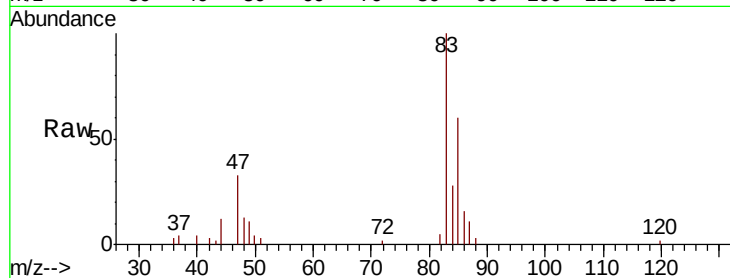




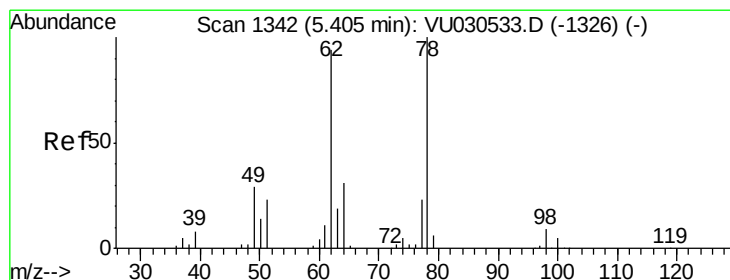
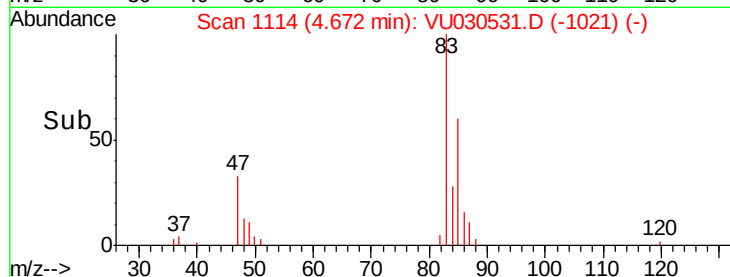
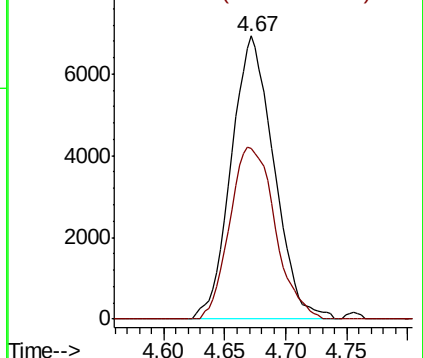
#25
Chloroform
Concen: 0.473 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.501

Tot Ion: 83 Resp: 16816
Ion Ratio Lower Upper
83 100
85 60.3 44.2 82.2

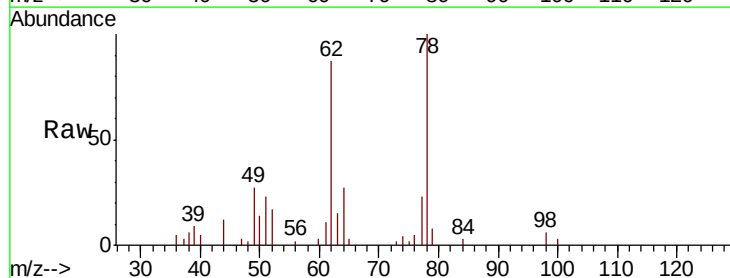


Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0

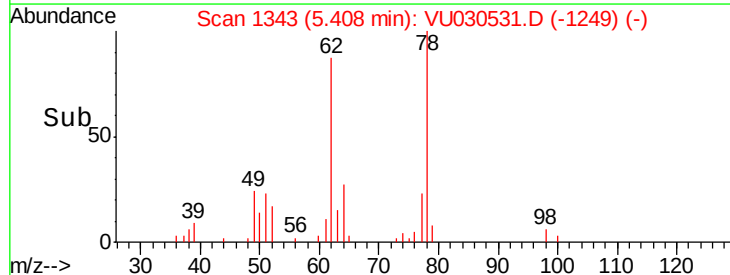
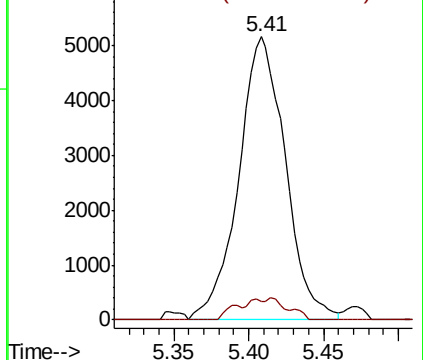


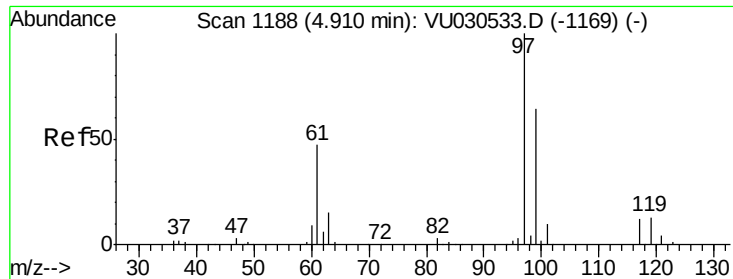
#27
1,2-Dichloroethane
Concen: 0.486 ug/L
RT: 5.41 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

Tgt Ion: 62 Resp: 11232
Ion Ratio Lower Upper
62 100
98 6.4 7.4 11.2#



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 98.05 (97.75 to 98.75): VU0

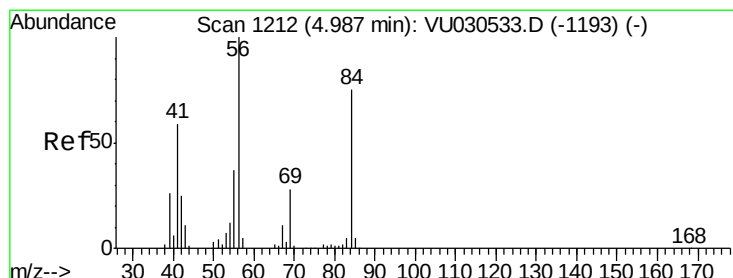
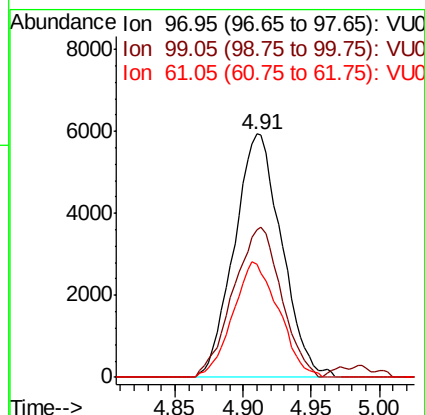
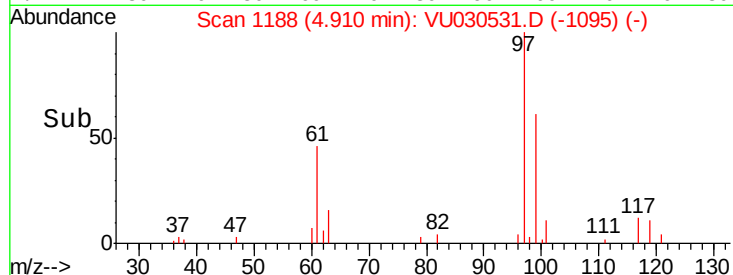
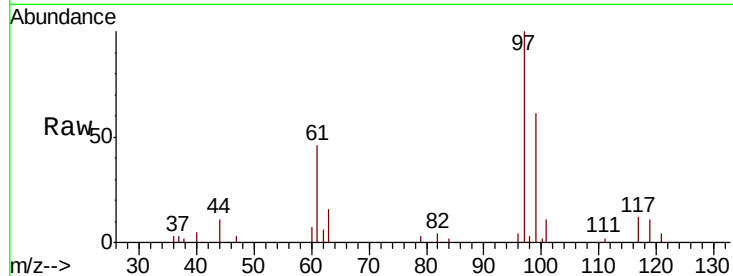




#29
 1,1,1-Trichloroethane
 Concen: 0.512 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

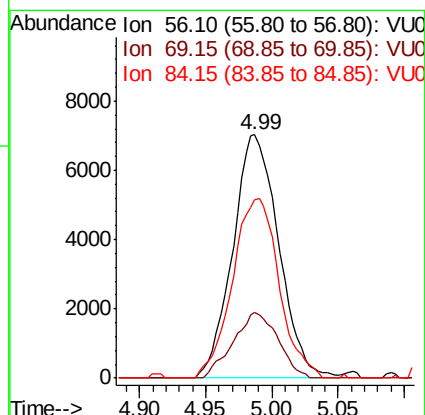
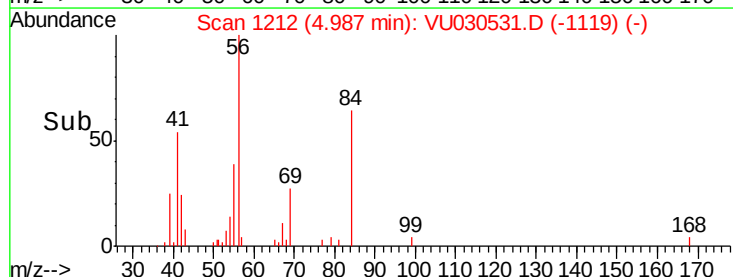
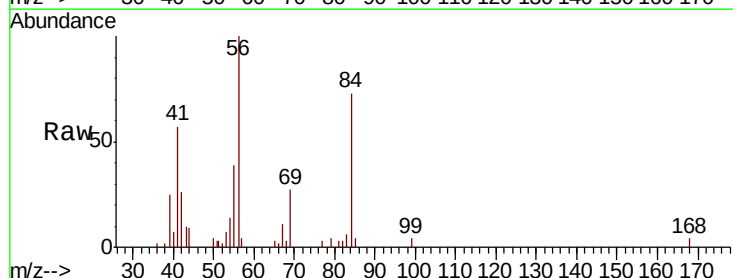
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

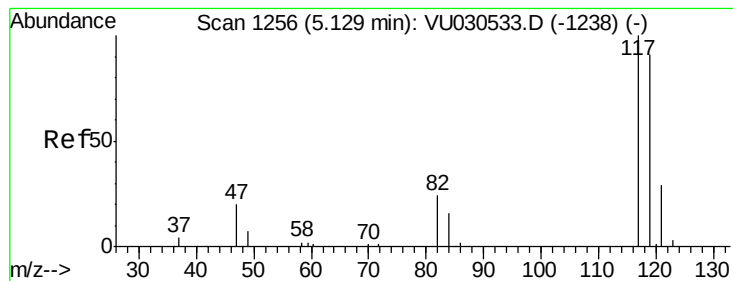
Tot Ion: 97 Resp: 14307
 Ion Ratio Lower Upper
 97 100
 99 62.6 51.8 77.6
 61 46.0 38.1 57.1



#30
 Cyclohexane
 Concen: 0.502 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. -0.00 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Tgt Ion: 56 Resp: 16936
 Ion Ratio Lower Upper
 56 100
 69 26.3 22.3 33.5
 84 74.7 58.3 87.5





#31

Carbon tetrachloride

Concen: 0.470 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

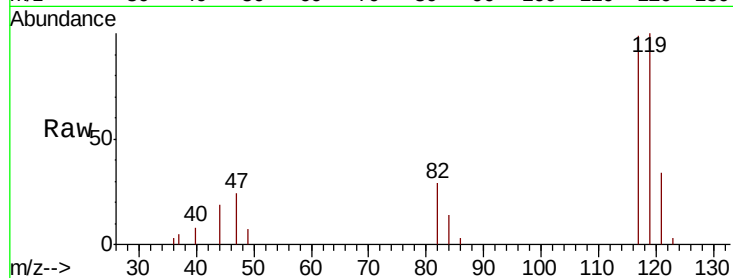
VSTD0.501

Tot Ion:117 Resp: 11021

Ion Ratio Lower Upper

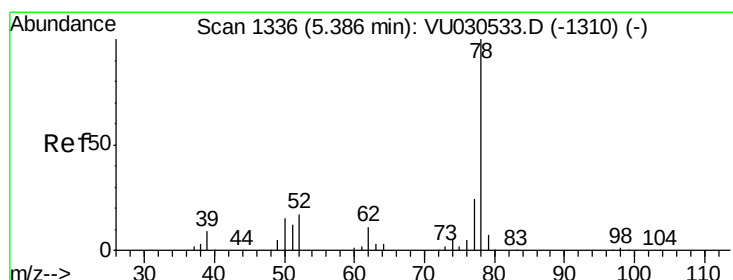
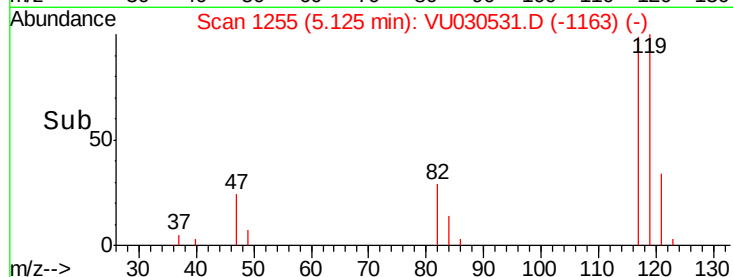
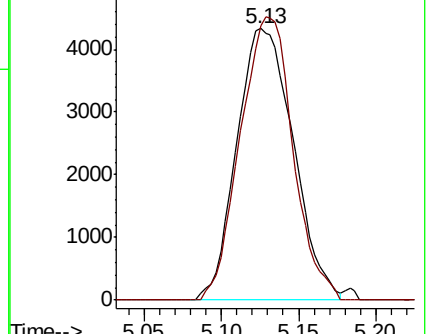
117 100

119 97.3 73.7 110.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.482 ug/L

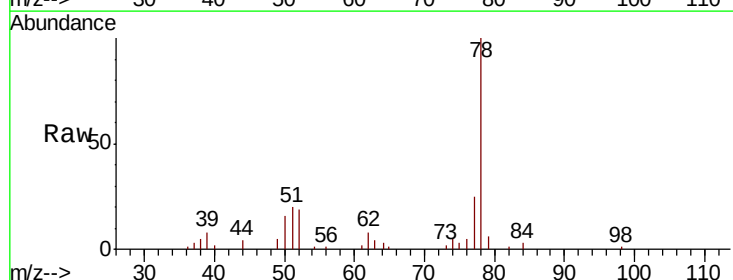
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

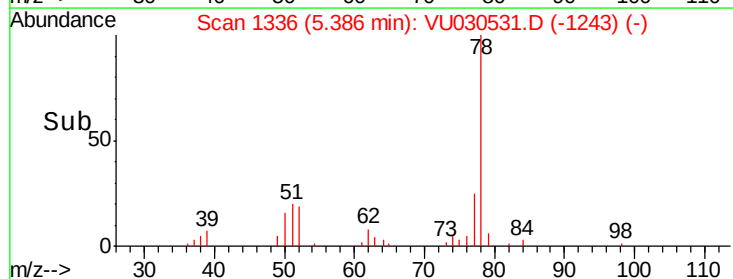
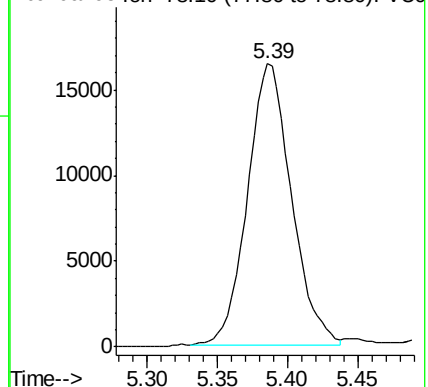
Lab File: VU030531.D

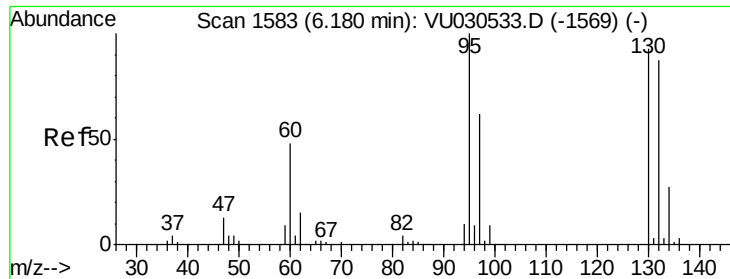
Acq: 29 Mar 2019 09:03

Tgt Ion: 78 Resp: 35734



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.471 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.501

Tot Ion: 95 Resp: 8747

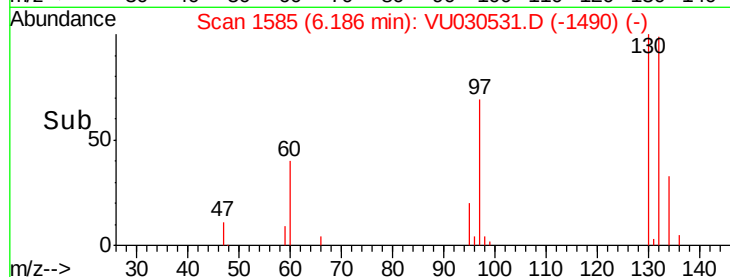
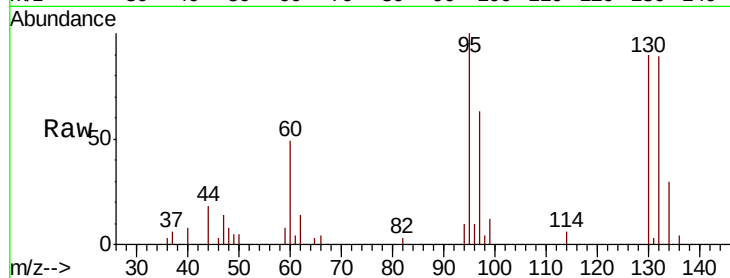
Ion Ratio Lower Upper

95 100

97 62.7 43.5 80.9

132 89.5 60.7 112.7

130 90.4 65.1 120.9

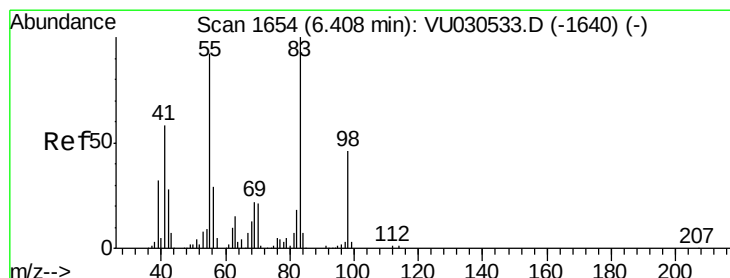
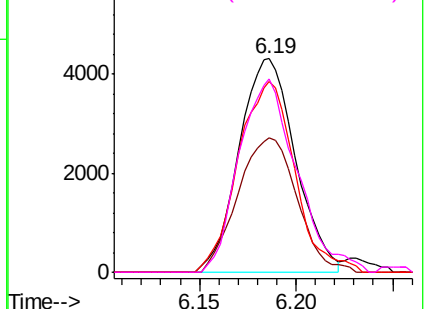


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.454 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

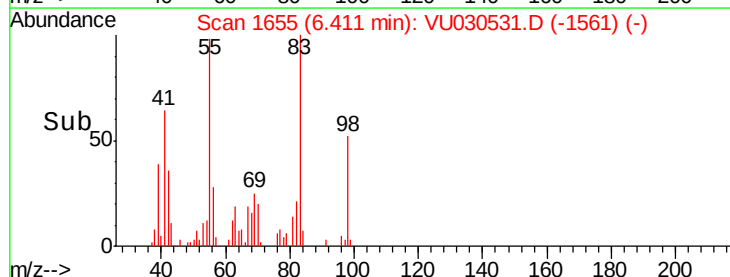
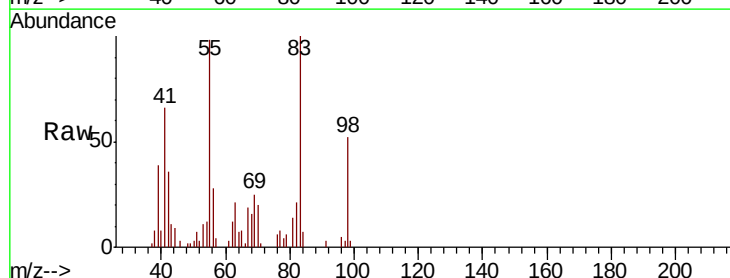
Tgt Ion: 83 Resp: 13449

Ion Ratio Lower Upper

83 100

55 95.9 72.6 108.8

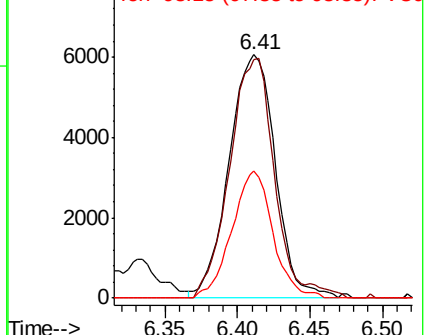
98 46.3 35.0 52.6

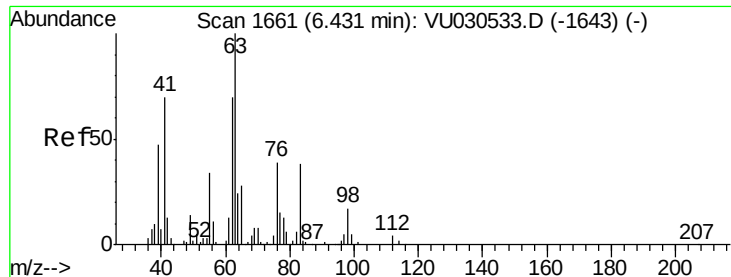


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

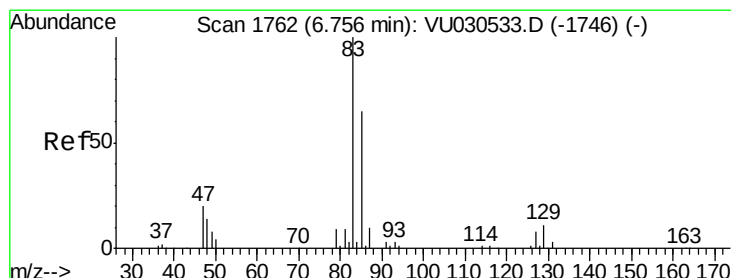
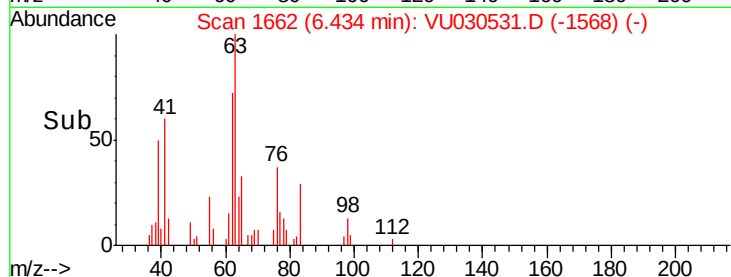
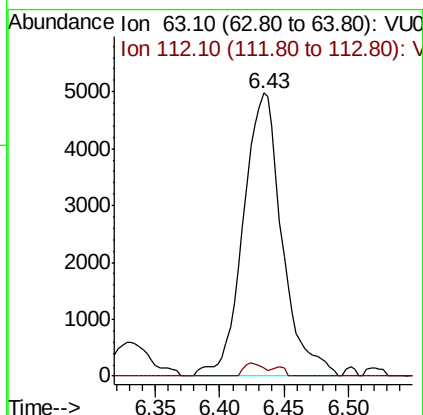
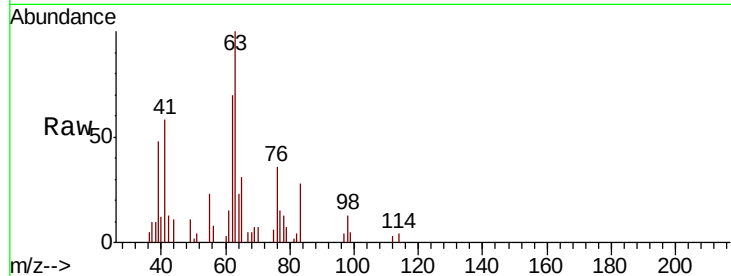




#37
 1,2-Dichloropropane
 Concen: 0.513 ug/L
 RT: 6.43 min Scan# 1662
 Delta R.T. 0.00 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

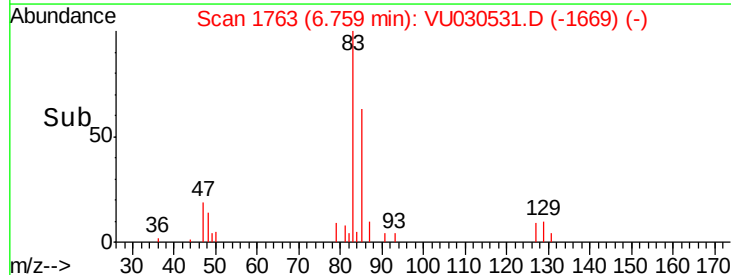
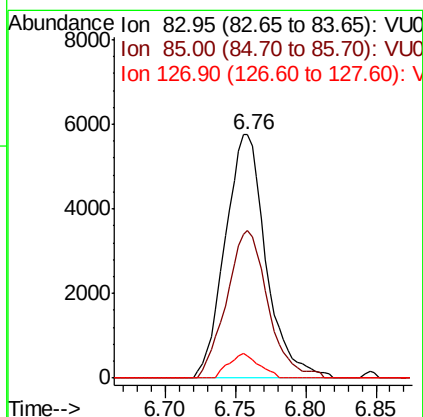
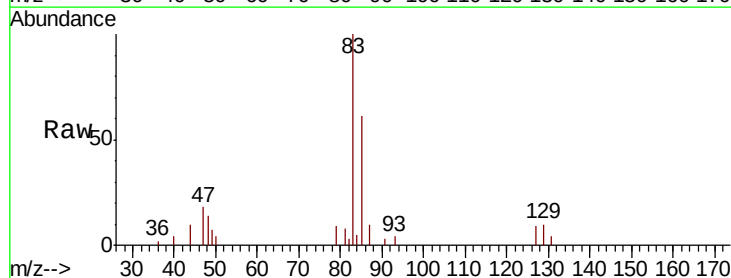
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD0.501

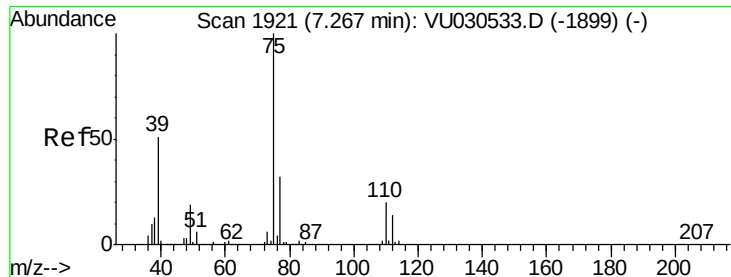
Tot Ion: 63 Resp: 10478
 Ion Ratio Lower Upper
 63 100
 112 2.2 2.8 4.2#



#38
 Bromodichloromethane
 Concen: 0.489 ug/L
 RT: 6.76 min Scan# 1763
 Delta R.T. 0.00 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Tgt Ion: 83 Resp: 11649
 Ion Ratio Lower Upper
 83 100
 85 60.5 45.1 83.9
 127 9.1 6.5 9.7

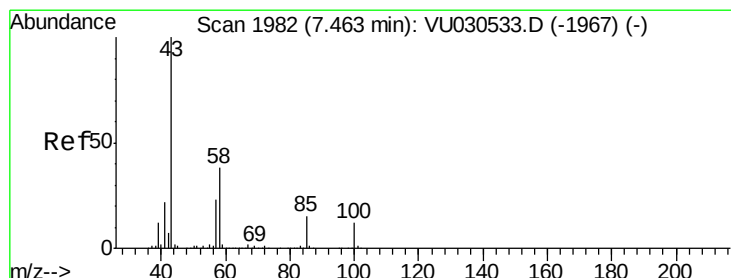
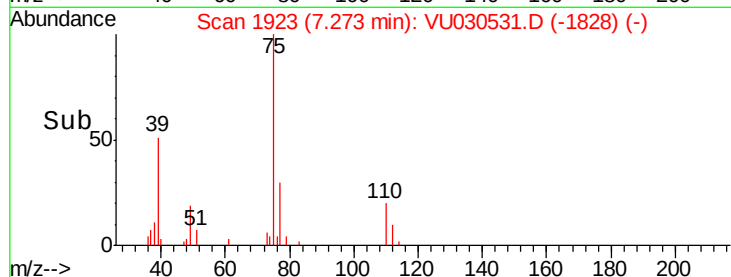
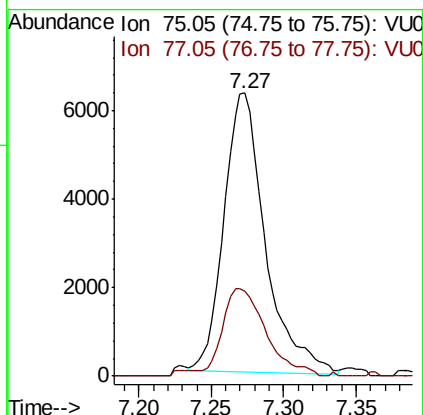
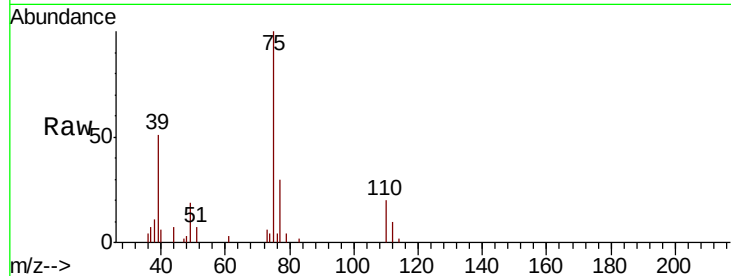




#39
 cis-1,3-Dichloropropene
 Concen: 0.459 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.01 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

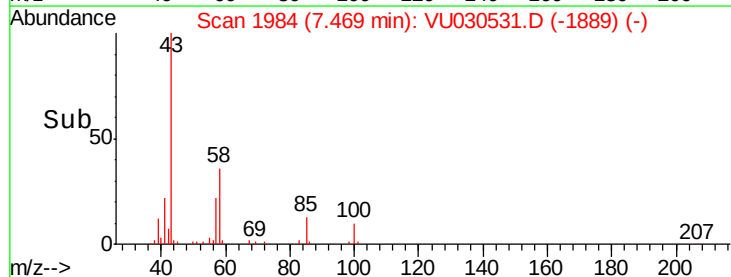
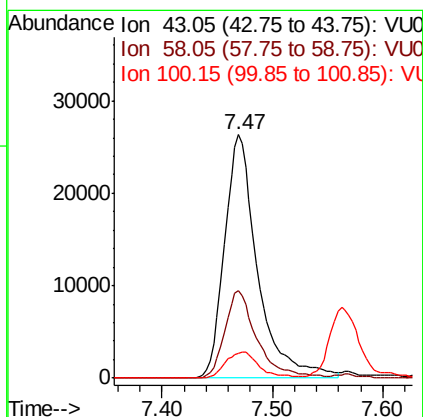
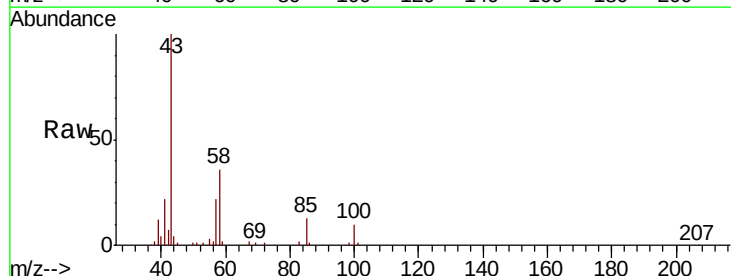
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

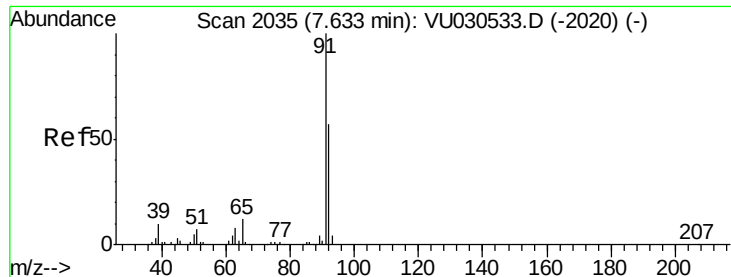
Tot Ion: 75 Resp: 12523
 Ion Ratio Lower Upper
 75 100
 77 30.0 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 4.301 ug/L
 RT: 7.47 min Scan# 1984
 Delta R.T. 0.01 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Tgt Ion: 43 Resp: 54745
 Ion Ratio Lower Upper
 43 100
 58 35.1 29.4 44.2
 100 10.8 9.2 13.8





#42

Toluene

Concen: 0.441 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

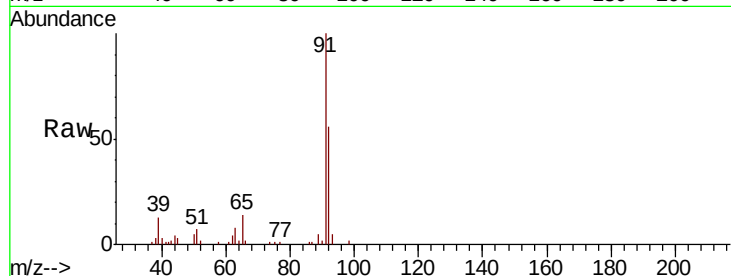
VSTD0.501

Tot Ion: 91 Resp: 32765

Ion Ratio Lower Upper

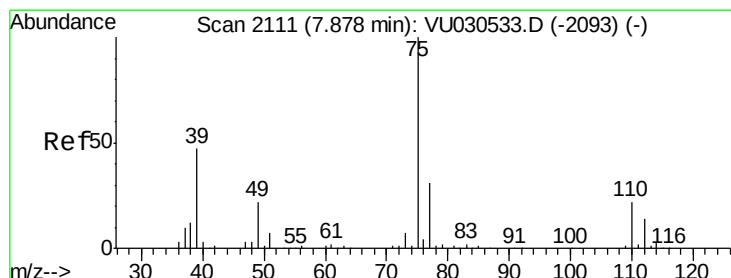
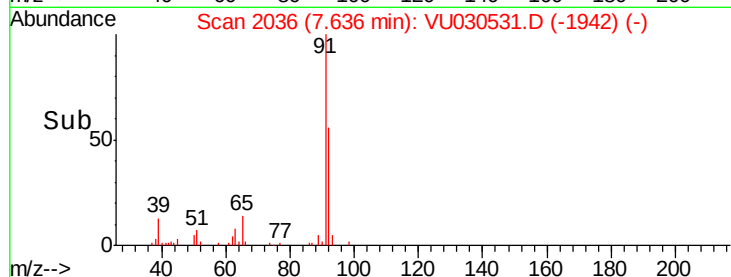
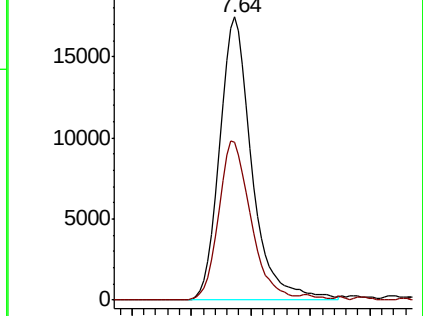
91 100

92 55.7 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU030533.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU030533.D (-2020) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.418 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VU030531.D

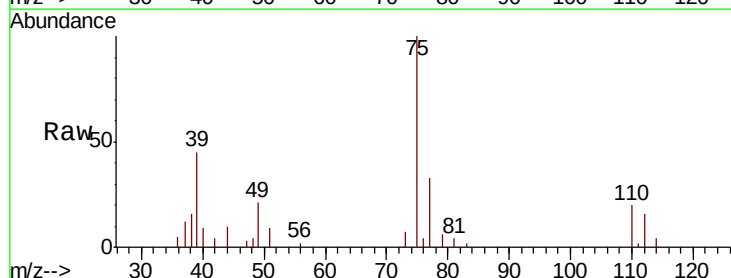
Acq: 29 Mar 2019 09:03

Tgt Ion: 75 Resp: 8837

Ion Ratio Lower Upper

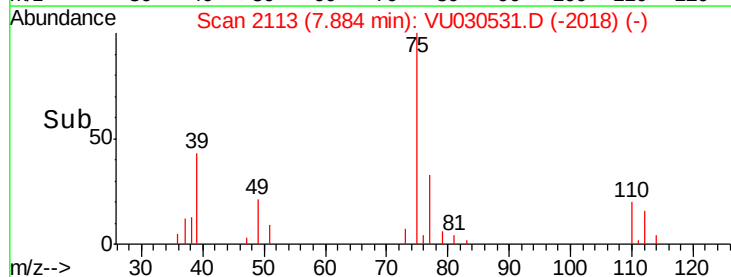
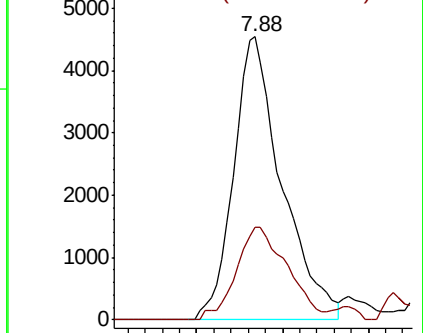
75 100

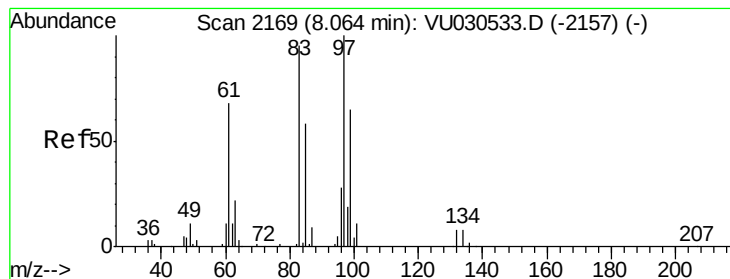
77 32.7 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU030533.D (-2093) (-)

Ion 77.05 (76.75 to 77.75): VU030533.D (-2093) (-)





#45

1,1,2-Trichloroethane

Concen: 0.459 ug/L

RT: 8.07 min Scan# 2171

Delta R.T. 0.01 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.501

Tot Ion: 97 Resp: 5587

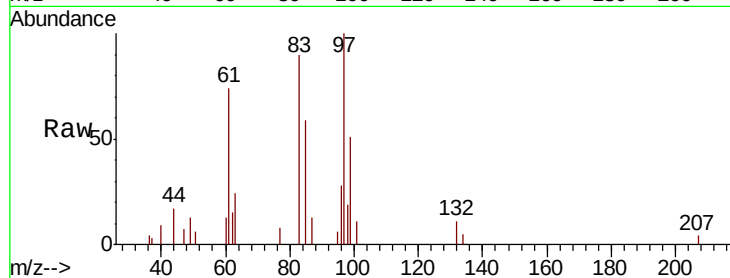
Ion Ratio Lower Upper

97 100

99 51.1 45.3 84.1

83 90.3 66.5 123.5

85 58.5 41.2 76.4

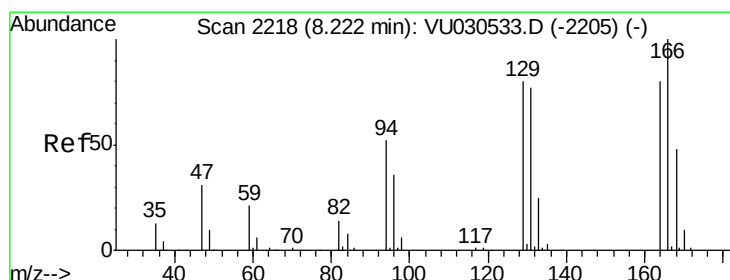
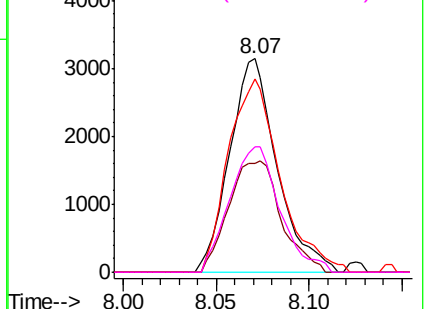
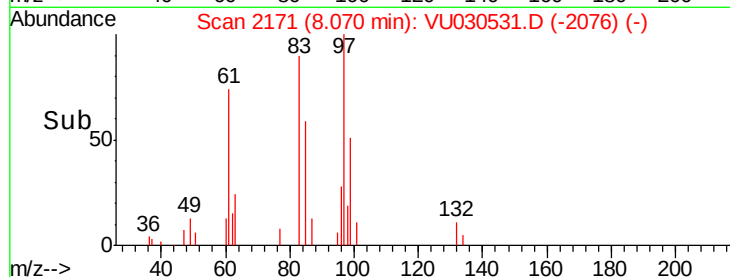


Abundance Ion 96.95 (96.65 to 97.65): VU030533.D (-2157) (-)

Ion 99.05 (98.75 to 99.75): VU030533.D (-2157) (-)

Ion 82.95 (82.65 to 83.65): VU030533.D (-2157) (-)

Ion 85.00 (84.70 to 85.70): VU030533.D (-2157) (-)



#47

Tetrachloroethene

Concen: 0.462 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Tgt Ion: 164 Resp: 6016

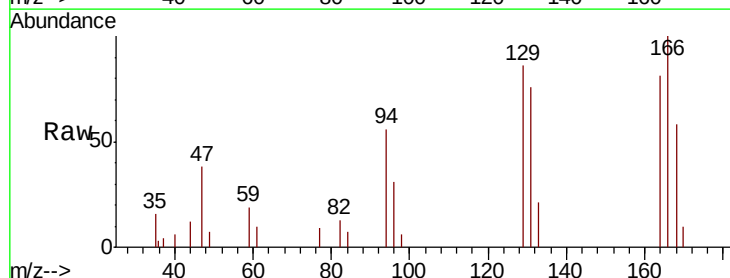
Ion Ratio Lower Upper

164 100

129 106.1 70.1 130.1

131 93.0 67.8 125.8

166 122.9 87.9 163.3

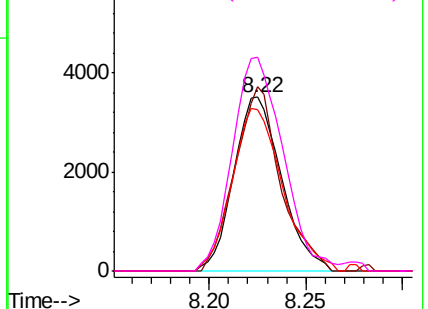
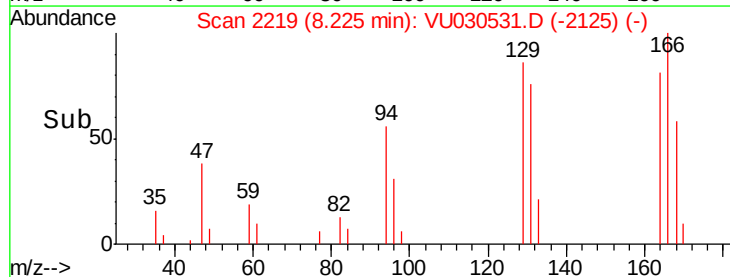


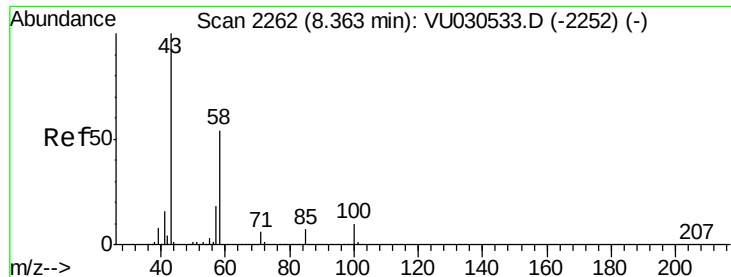
Abundance Ion 163.90 (163.60 to 164.60): VU030533.D (-2205) (-)

Ion 128.95 (128.65 to 129.65): VU030533.D (-2205) (-)

Ion 130.95 (130.65 to 131.65): VU030533.D (-2205) (-)

Ion 165.90 (165.60 to 166.60): VU030533.D (-2205) (-)

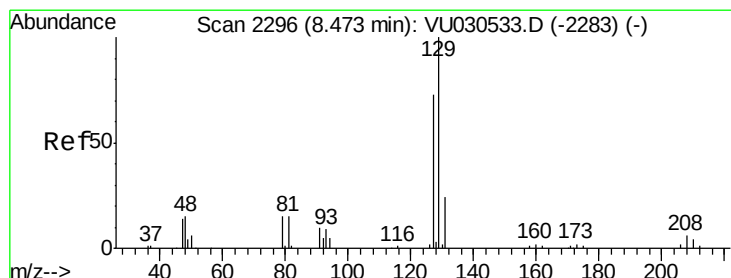
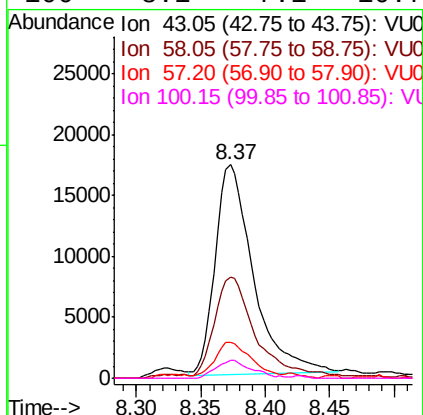
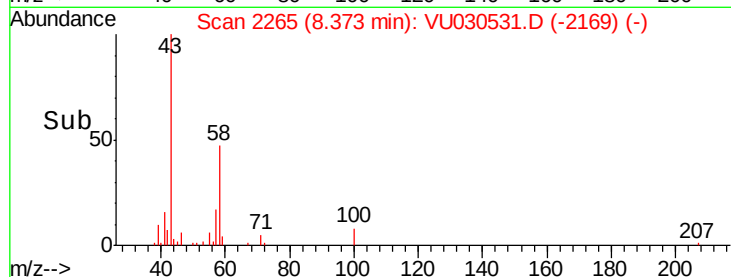
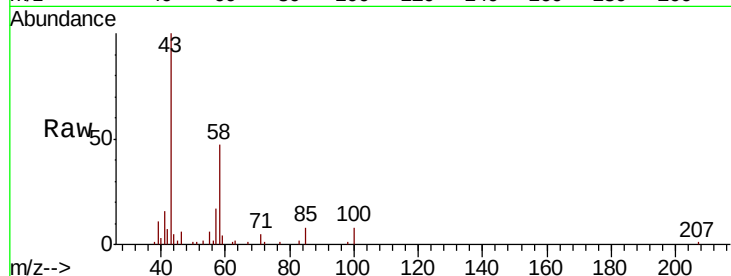




#48
2-Hexanone
Concen: 4.053 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. 0.01 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

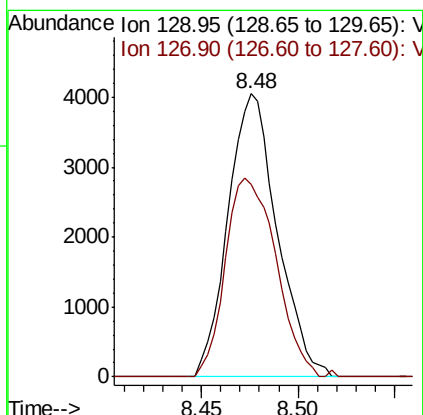
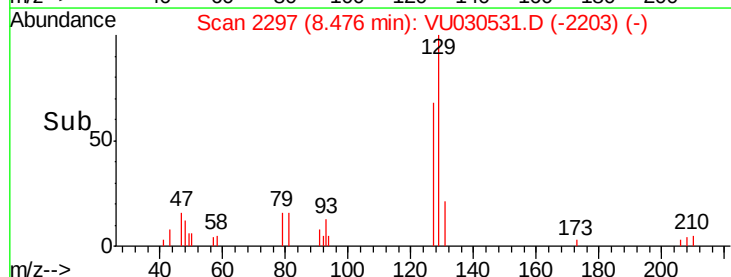
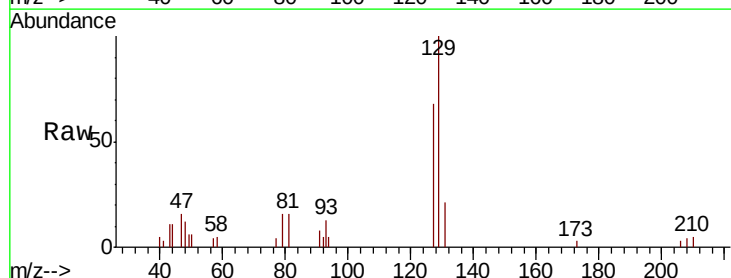
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.501

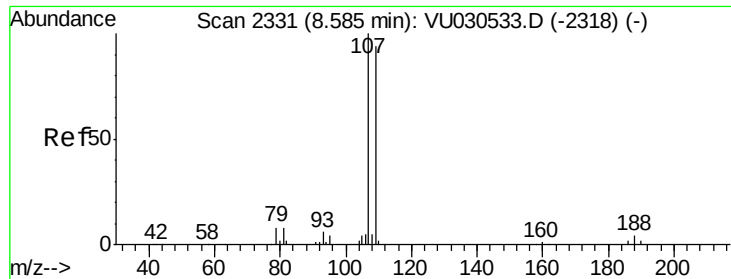
Tot Ion: 43 Resp: 35746
Ion Ratio Lower Upper
43 100
58 52.1 42.5 63.7
57 14.5 13.9 20.9
100 8.1 7.1 10.7



#49
Dibromochloromethane
Concen: 0.492 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

Tgt Ion: 129 Resp: 7155
Ion Ratio Lower Upper
129 100
127 67.8 51.1 94.9





#50

1,2-Dibromoethane

Concen: 0.442 ug/L

RT: 8.59 min Scan# 2332

Delta R.T. 0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.501

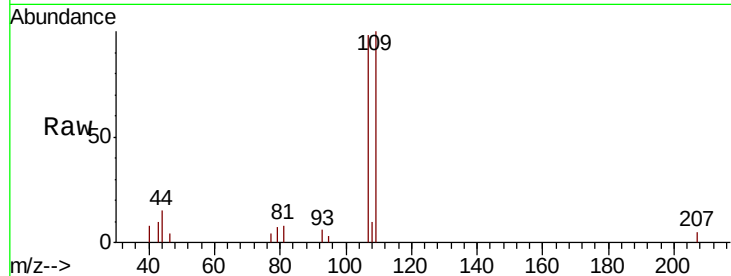
Tot Ion:107 Resp: 5017

Ion Ratio Lower Upper

107 100

109 102.3 65.6 121.8

188 0.0 2.9 4.3#

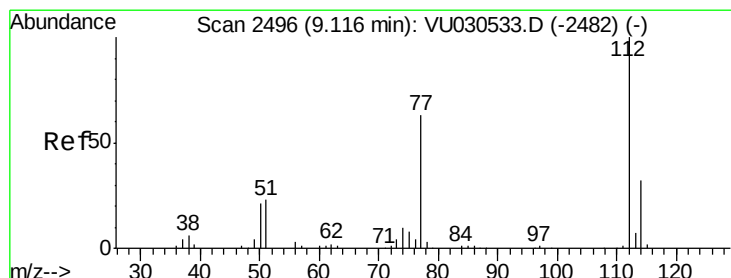
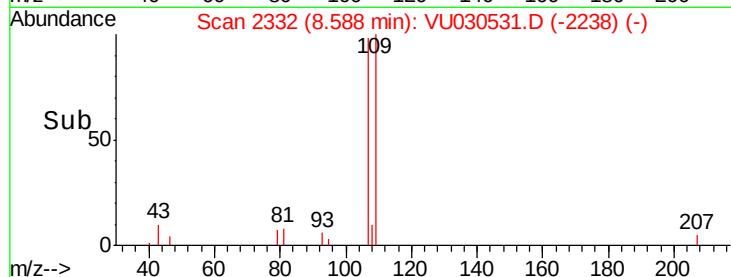
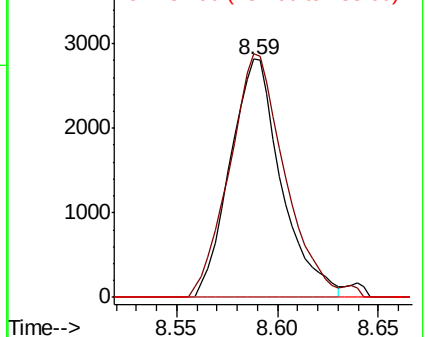


Abundance

Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 0.510 ug/L

RT: 9.12 min Scan# 2497

Delta R.T. 0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

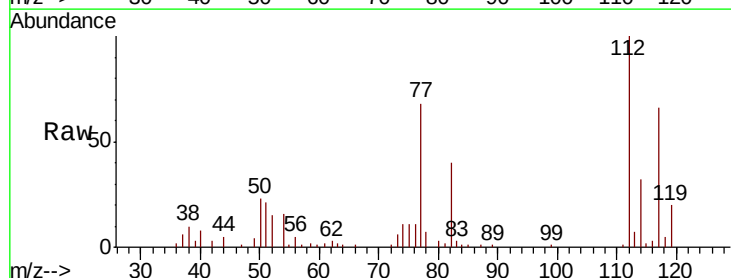
Tgt Ion:112 Resp: 23382

Ion Ratio Lower Upper

112 100

114 32.1 22.3 41.5

77 67.8 51.0 76.6

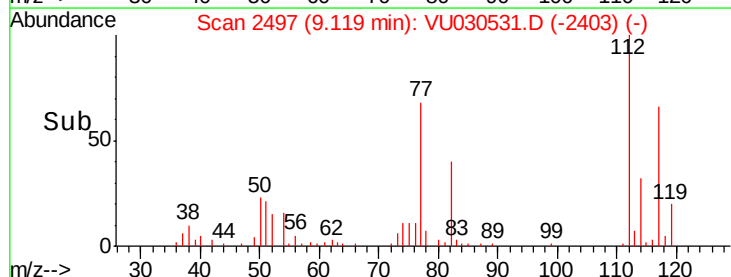
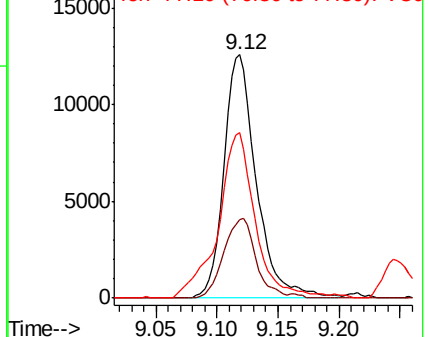


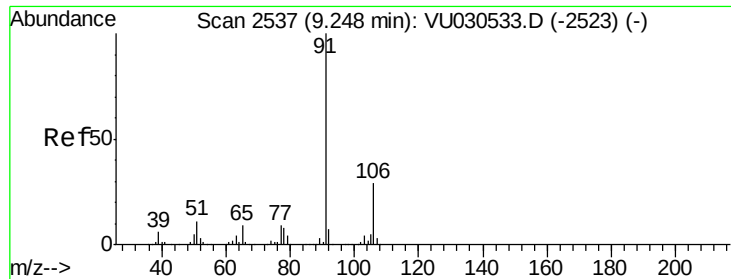
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 0.438 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

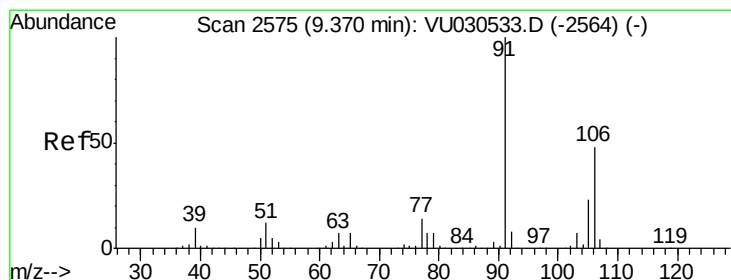
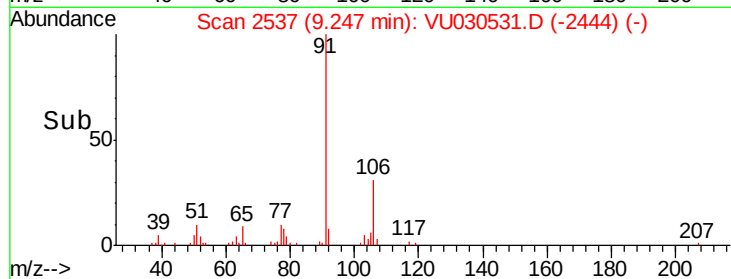
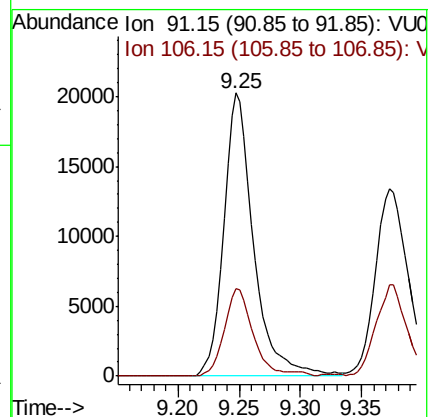
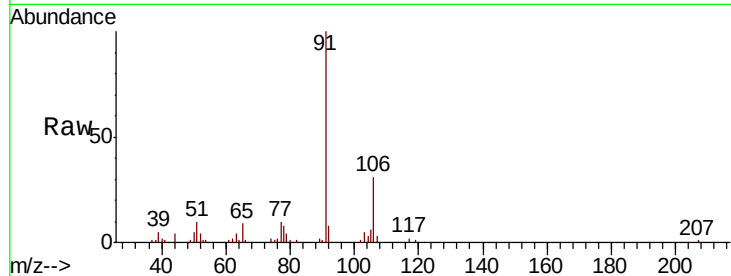
VSTD0.501

Tot Ion: 91 Resp: 34720

Ion Ratio Lower Upper

91 100

106 31.0 20.2 37.4



#53

m,p-Xylene

Concen: 0.433 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030531.D

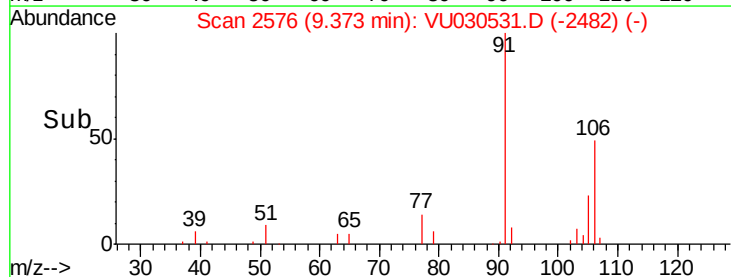
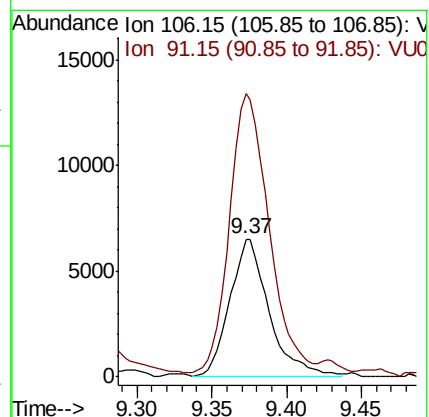
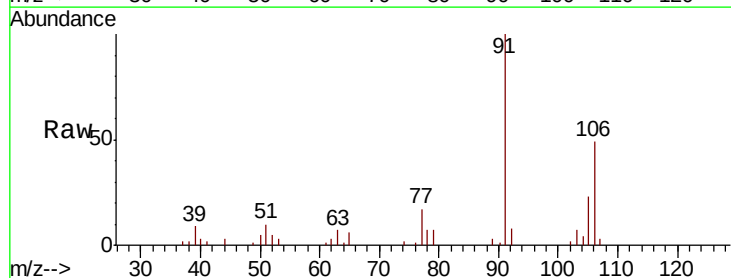
Acq: 29 Mar 2019 09:03

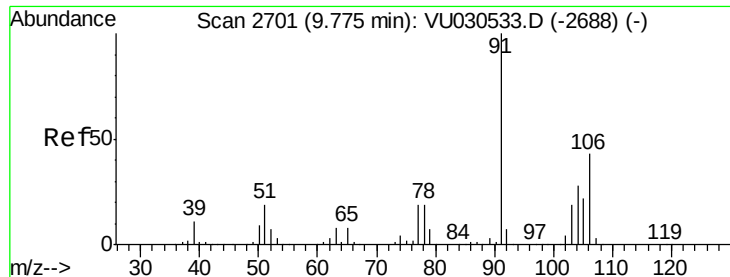
Tgt Ion: 106 Resp: 11995

Ion Ratio Lower Upper

106 100

91 205.9 147.4 273.8

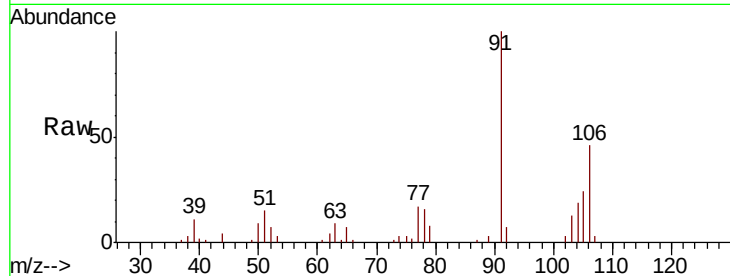




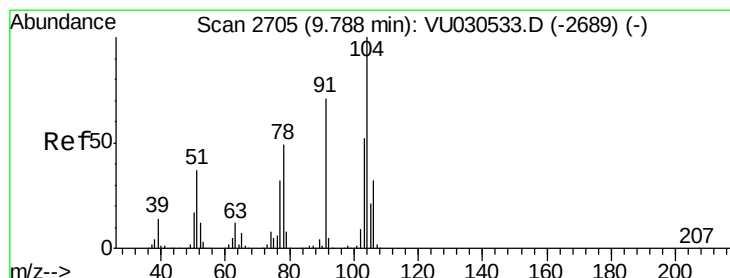
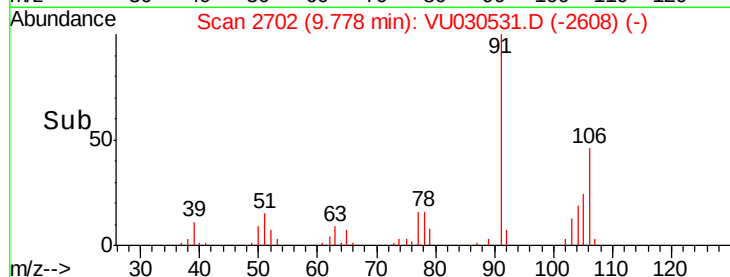
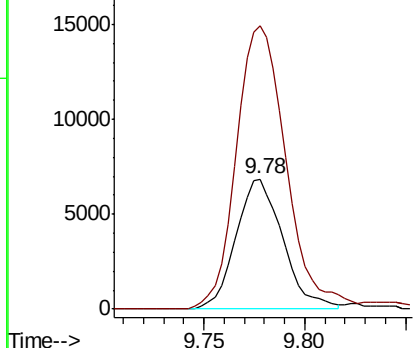
#54
o-Xylene
Concen: 0.411 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.501

Tot Ion:106 Resp: 11175
Ion Ratio Lower Upper
106 100
91 218.1 161.3 299.7

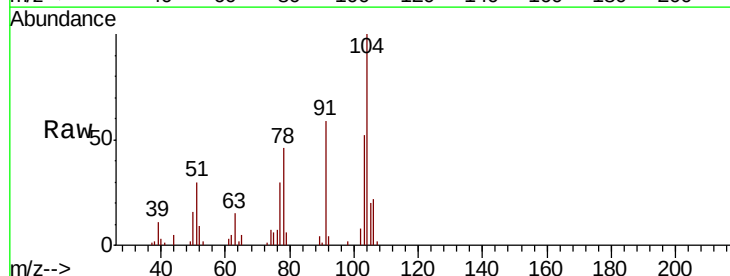


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

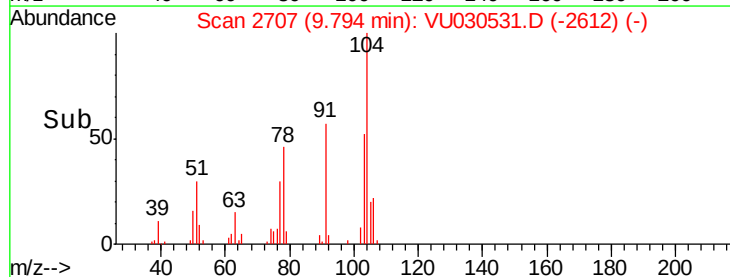
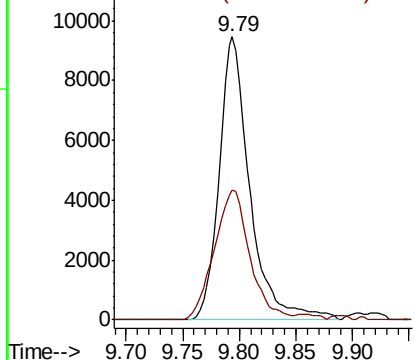


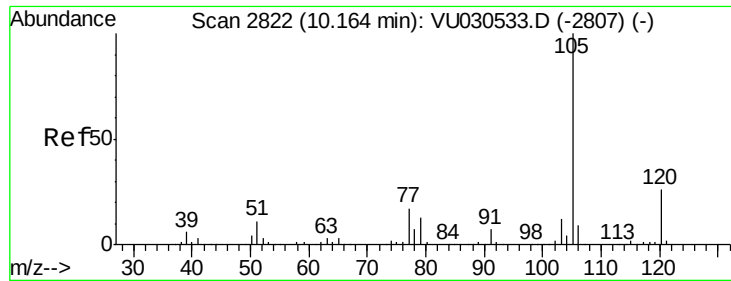
#55
Styrene
Concen: 0.388 ug/L
RT: 9.79 min Scan# 2707
Delta R.T. 0.01 min
Lab File: VU030531.D
Acq: 29 Mar 2019 09:03

Tgt Ion:104 Resp: 17794
Ion Ratio Lower Upper
104 100
78 45.7 34.4 63.8



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





#56

Isopropylbenzene

Concen: 0.402 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.501

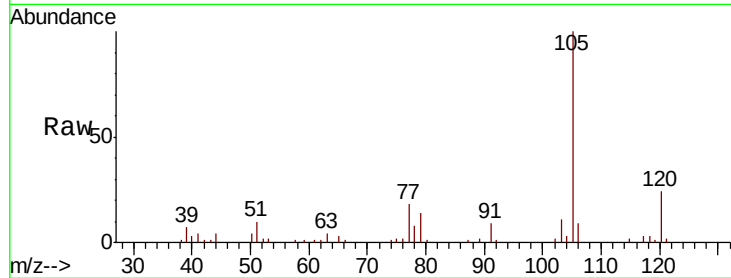
Tot Ion:105 Resp: 29205

Ion Ratio Lower Upper

105 100

120 25.5 20.5 30.7

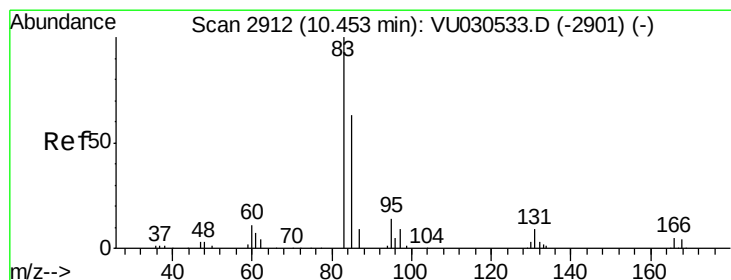
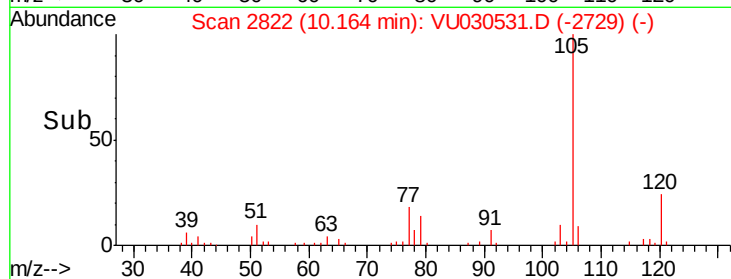
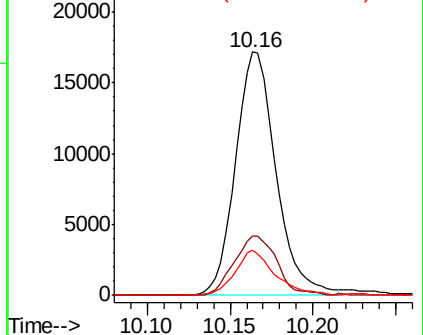
77 18.0 13.8 20.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.471 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

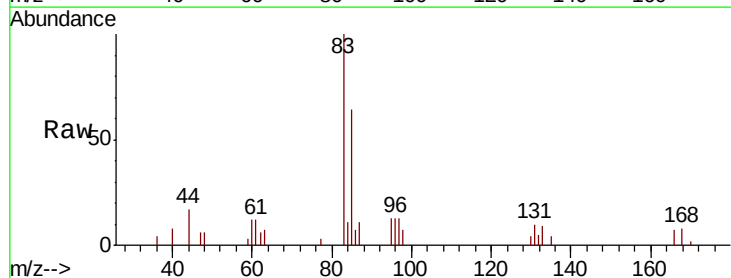
Tgt Ion: 83 Resp: 7619

Ion Ratio Lower Upper

83 100

85 63.9 44.4 82.5

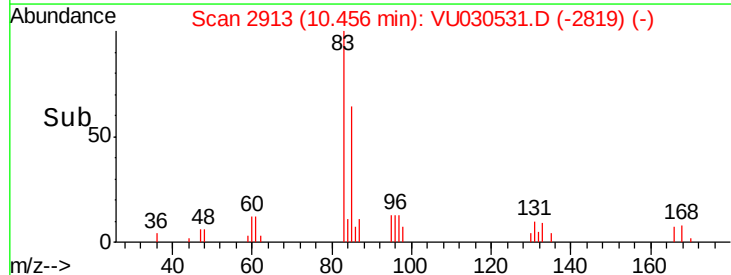
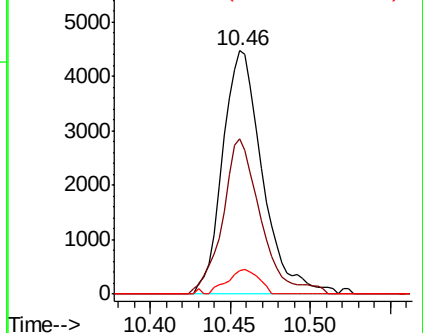
131 9.9 7.4 11.2

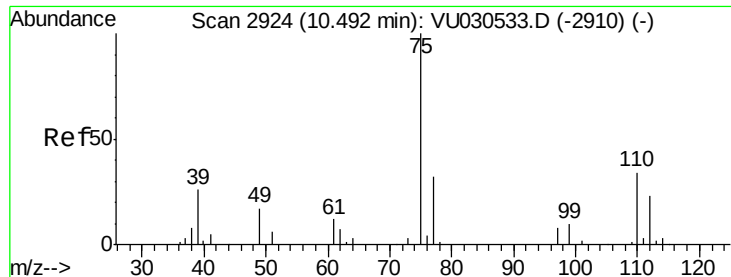


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.498 ug/L

RT: 10.49 min Scan# 2925

Delta R.T. 0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

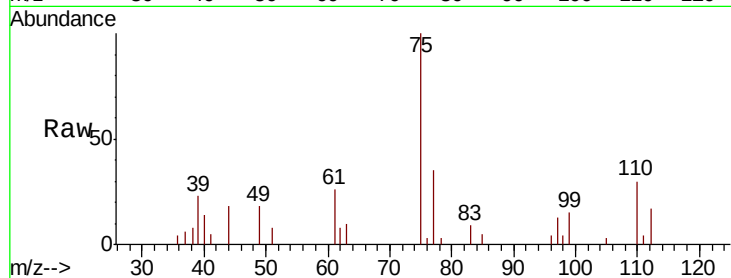
VSTD0.501

Tot Ion: 75 Resp: 5680

Ion Ratio Lower Upper

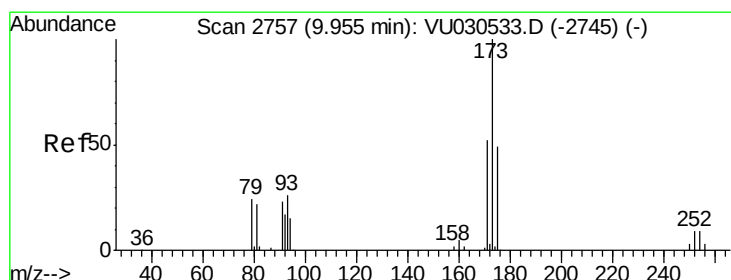
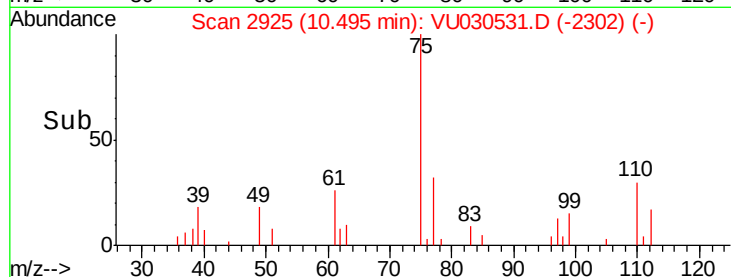
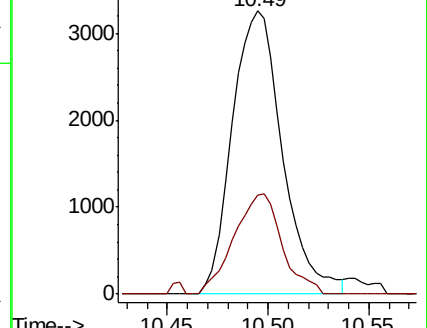
75 100

77 33.8 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU030533.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU030533.D (-2910) (-)



#61

Bromoform

Concen: 0.464 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

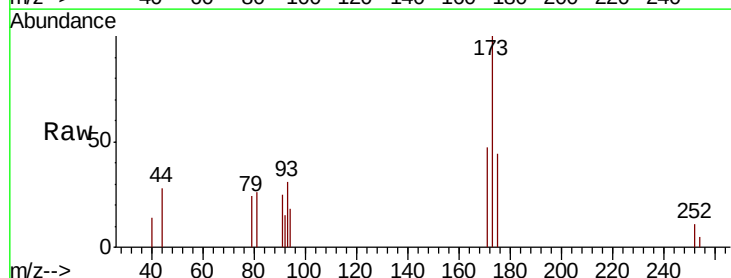
Tgt Ion: 173 Resp: 3260

Ion Ratio Lower Upper

173 100

175 48.8 38.6 58.0

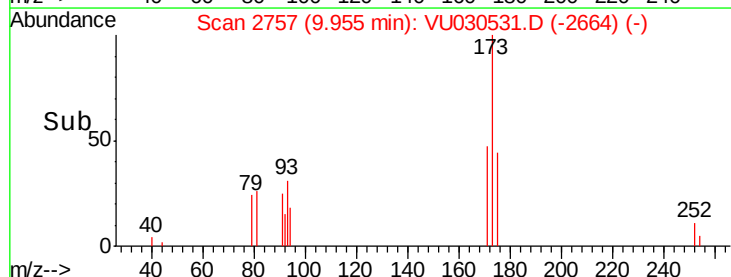
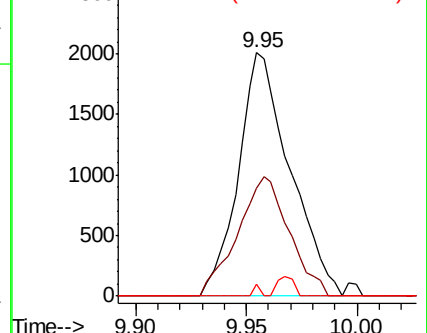
254 0.6 7.0 10.4#

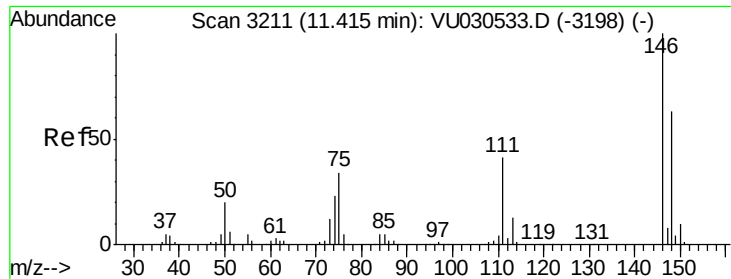


Abundance Ion 172.90 (172.60 to 173.60): VU030533.D (-2745) (-)

Ion 174.90 (174.60 to 175.60): VU030533.D (-2745) (-)

Ion 253.75 (253.45 to 254.45): VU030533.D (-2745) (-)

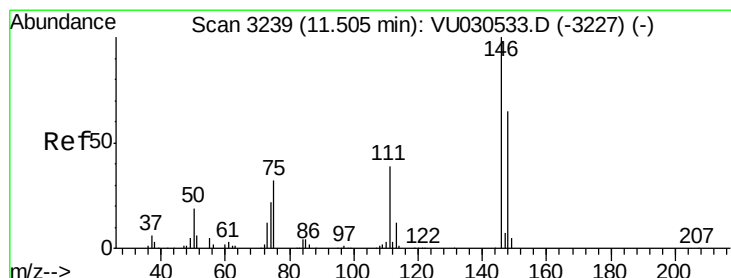
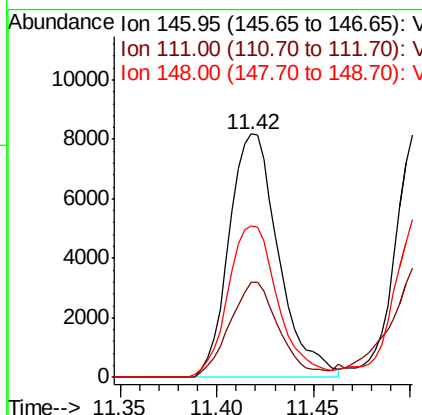
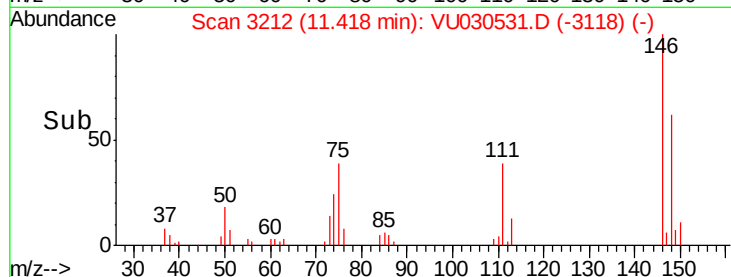
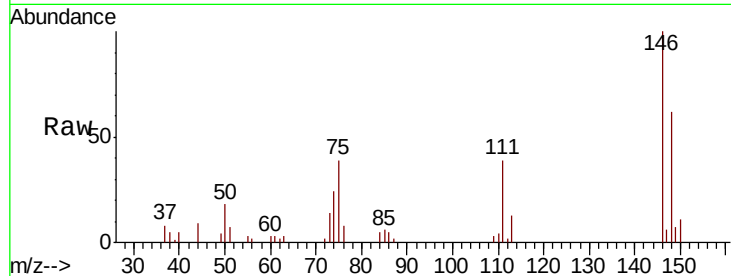




#62
 1,3-Dichlorobenzene
 Concen: 0.498 ug/L
 RT: 11.42 min Scan# 3212
 Delta R.T. 0.00 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

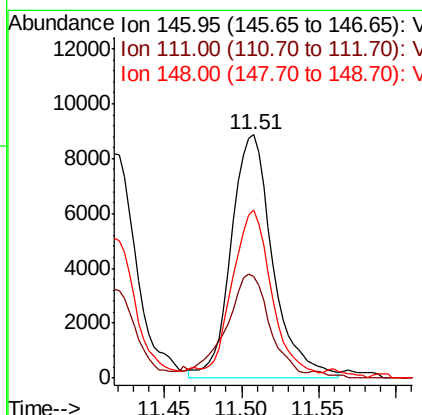
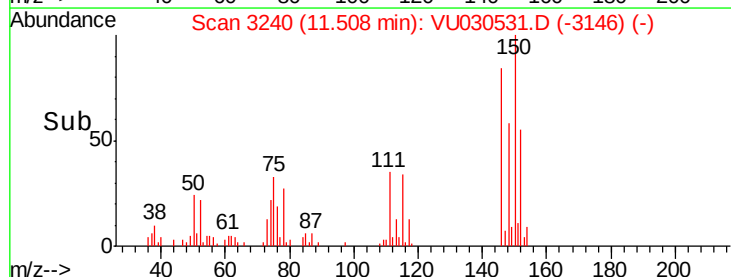
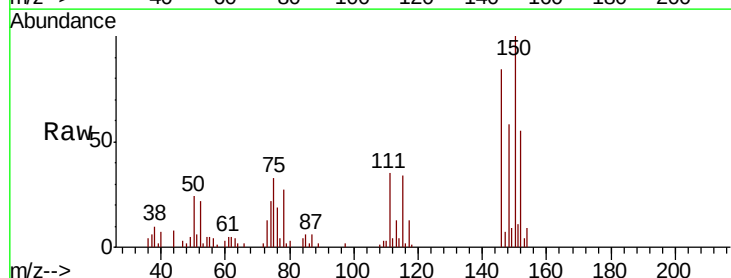
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

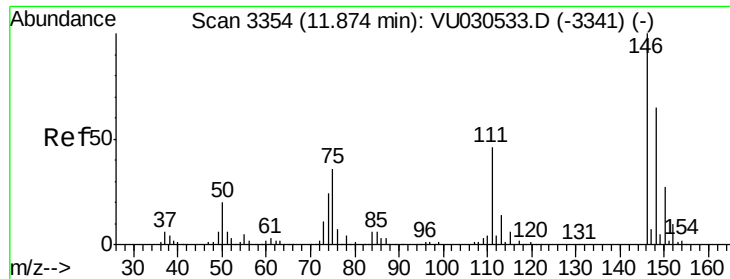
Tot Ion:146 Resp: 14583
 Ion Ratio Lower Upper
 146 100
 111 39.2 28.9 53.7
 148 62.4 44.4 82.4



#63
 1,4-Dichlorobenzene
 Concen: 0.542 ug/L
 RT: 11.51 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Tgt Ion:146 Resp: 16625
 Ion Ratio Lower Upper
 146 100
 111 41.6 27.9 51.9
 148 69.1 45.4 84.4

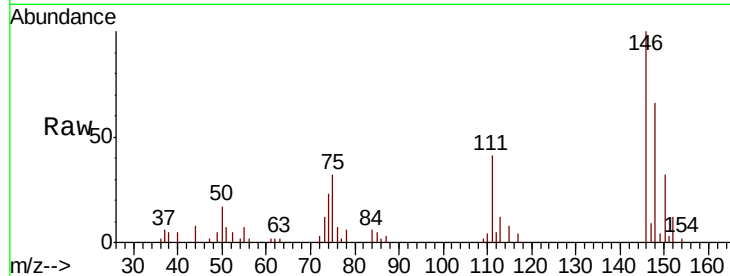




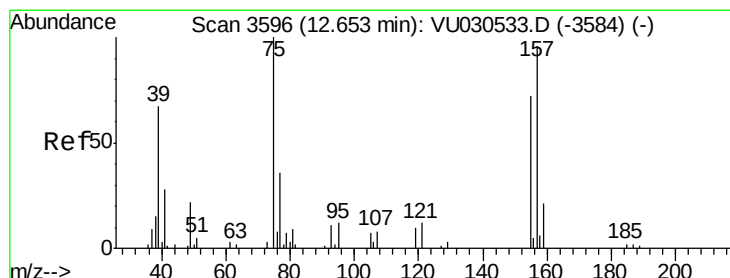
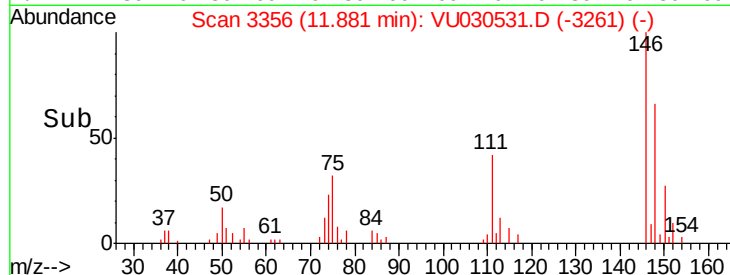
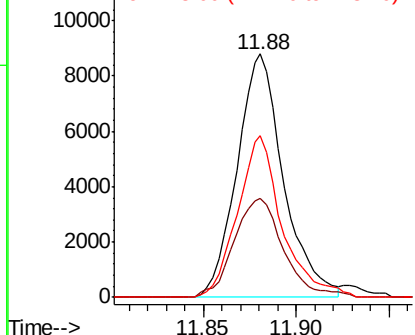
#65
 1,2-Dichlorobenzene
 Concen: 0.536 ug/L
 RT: 11.88 min Scan# 3356
 Delta R.T. 0.01 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

Tot Ion:146 Resp: 15260
 Ion Ratio Lower Upper
 146 100
 111 40.5 37.1 55.7
 148 66.2 51.8 77.8

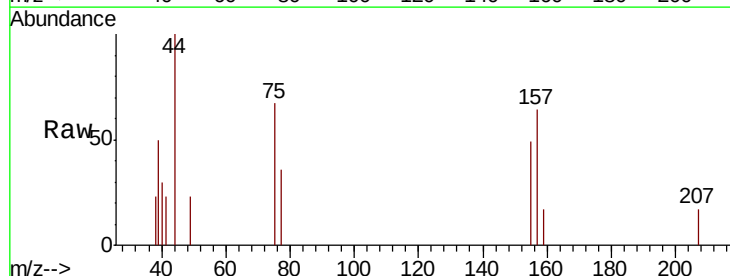


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

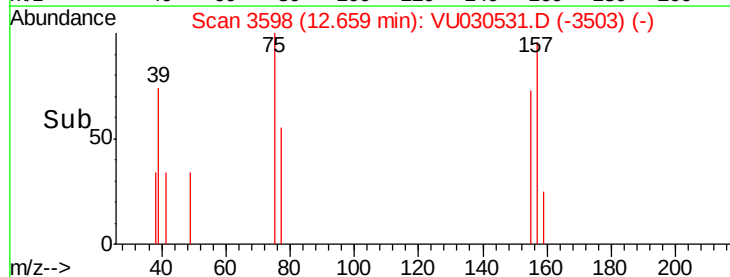
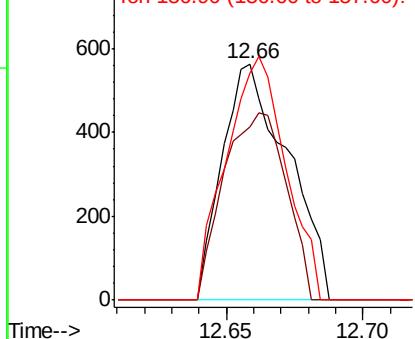


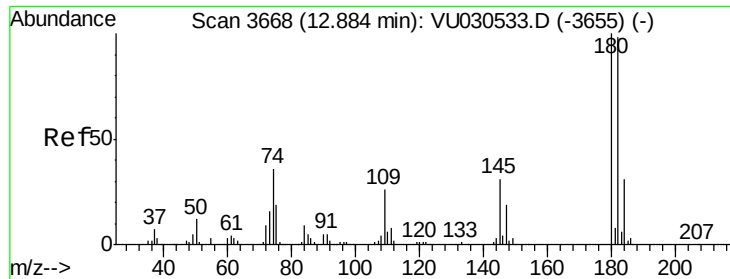
#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.429 ug/L
 RT: 12.66 min Scan# 3598
 Delta R.T. 0.01 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Tgt Ion: 75 Resp: 945
 Ion Ratio Lower Upper
 75 100
 155 73.2 57.7 86.5
 157 96.3 76.9 115.3



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

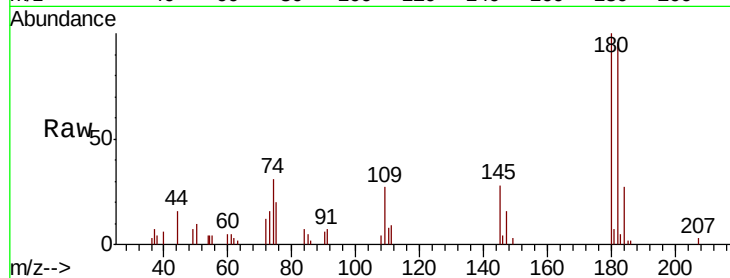




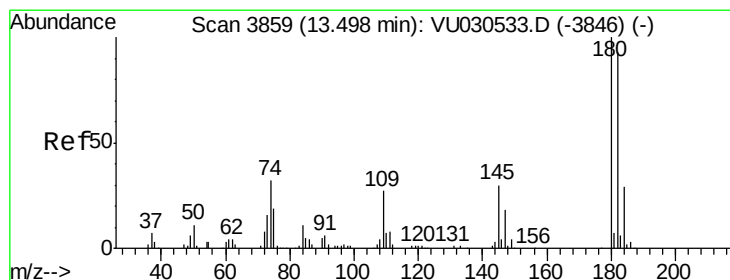
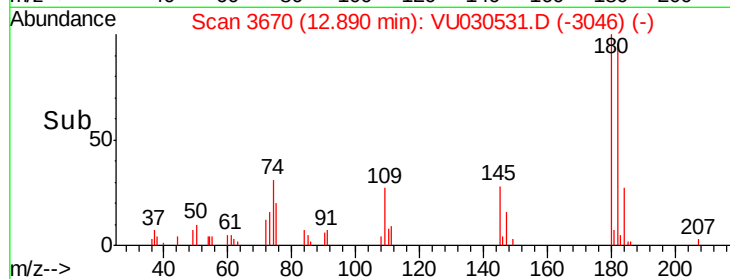
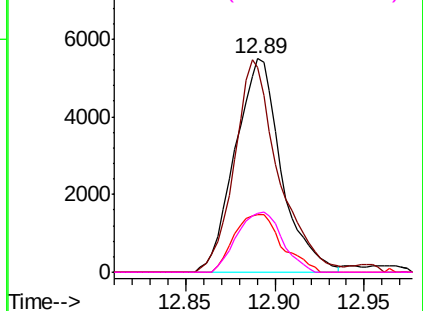
#67
 1,3,5-Trichlorobenzene
 Concen: 0.453 ug/L
 RT: 12.89 min Scan# 3670
 Delta R.T. 0.01 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

Tot Ion:180 Resp: 9889
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.2 114.2
 184 28.1 24.2 36.2
 145 27.7 24.1 36.1

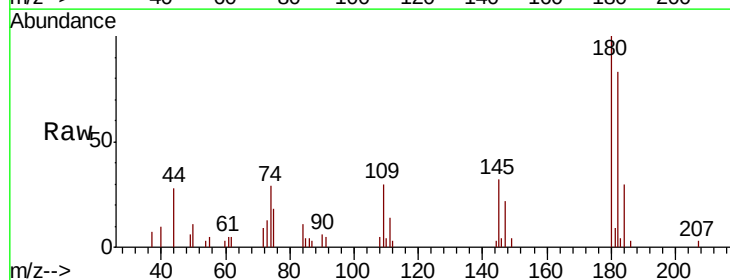


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

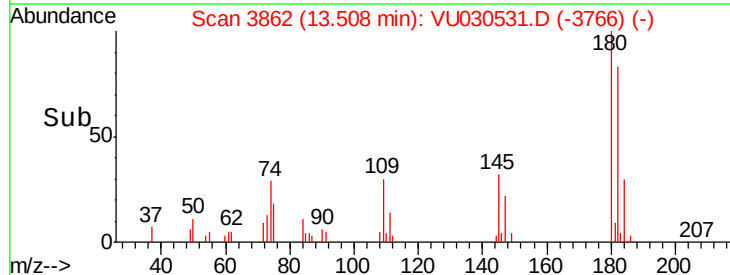
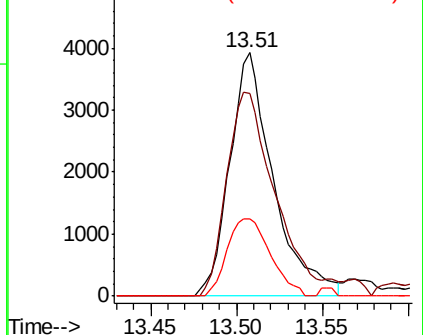


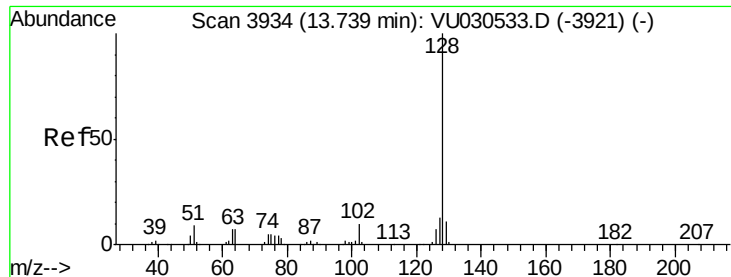
#68
 1,2,4-trichlorobenzene
 Concen: 0.410 ug/L
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.01 min
 Lab File: VU030531.D
 Acq: 29 Mar 2019 09:03

Tgt Ion:180 Resp: 6907
 Ion Ratio Lower Upper
 180 100
 182 94.6 74.6 111.8
 145 31.5 23.6 35.4



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.347 ug/L

RT: 13.75 min Scan# 3937

Delta R.T. 0.01 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.501

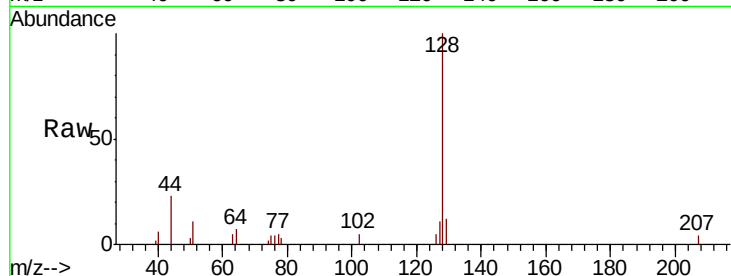
Tot Ion:128 Resp: 9392

Ion Ratio Lower Upper

128 100

129 7.3 8.3 12.5#

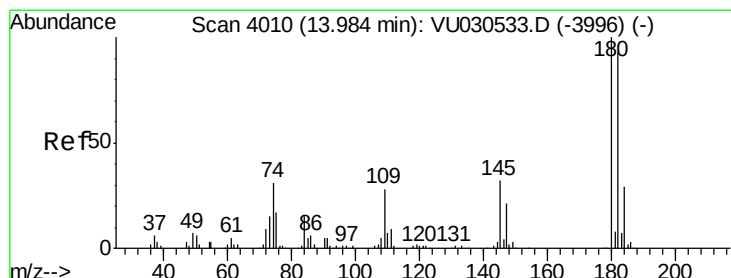
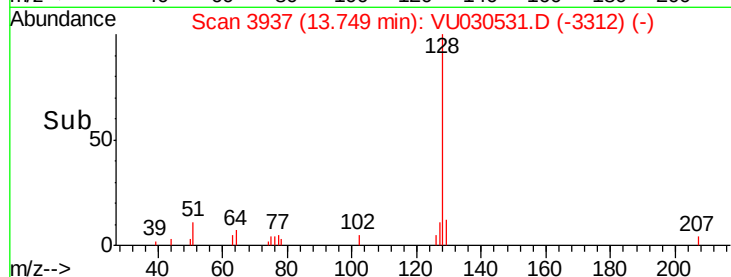
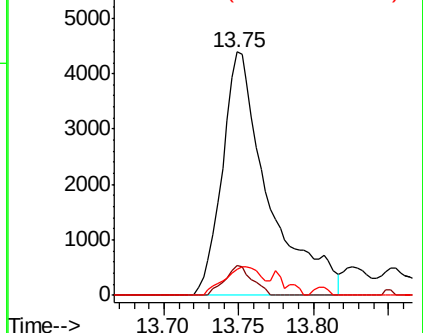
127 9.2 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.366 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU030531.D

Acq: 29 Mar 2019 09:03

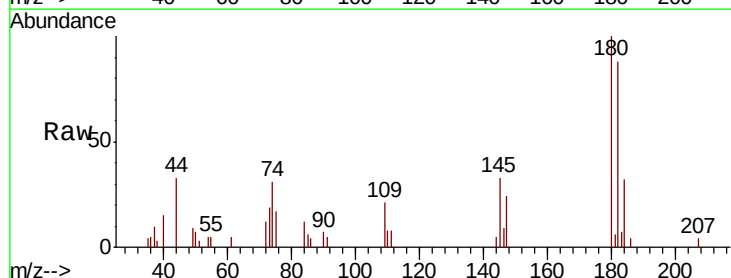
Tgt Ion:180 Resp: 5758

Ion Ratio Lower Upper

180 100

182 109.4 76.8 115.2

145 30.0 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

