

Data File : VU031521.D
Acq On : 26 Apr 2019 10:38
Operator : JC/SP
Sample : VSTD01050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01050

Quant Time: Apr 26 23:32:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Apr 26 23:29:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	692030	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	663127	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	270559	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	60473	10.71	ug/L	0.00
7) Chloroethane-d5	1.68	69	47118	10.94	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	119793	11.90	ug/L	0.00
21) 2-Butanone-d5	4.20	46	102978	23.21	ug/L	0.00
24) Chloroform-d	4.65	84	108851	11.72	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	74300	13.11	ug/L	0.00
32) Benzene-d6	5.34	84	205773	10.65	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	73154	11.57	ug/L	0.00
41) Toluene-d8	7.56	98	174410	10.10	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	27964	9.76	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	57168	18.66	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	99944	11.71	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	60512	10.88	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	82068	15.340 ug/L	98
3) Chloromethane	1.32	50	104577	15.440 ug/L	99
5) Vinyl chloride	1.40	62	93983	14.337 ug/L	98
6) Bromomethane	1.63	94	49077	13.226 ug/L	93
8) Chloroethane	1.70	64	52041	14.059 ug/L	97
9) Trichlorofluoromethane	1.88	101	106476	13.782 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	59954	13.507 ug/L	99
12) 1,1-Dichloroethene	2.28	96	58462	13.395 ug/L	86
13) Acetone	2.34	43	135876	36.145 ug/L	99
14) Carbon disulfide	2.48	76	196158	14.563 ug/L	99
15) Methyl Acetate	2.62	43	95510	14.597 ug/L	98
16) Methylene chloride	2.70	84	70131	13.954 ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	60462	13.424 ug/L	99
18) Methyl tert-butyl Ether	2.99	73	184340	12.445 ug/L	99
19) 1,1-Dichloroethane	3.44	63	126726	14.003 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	62260	12.211 ug/L	97
22) 2-Butanone	4.28	43	142022	30.270 ug/L	97
23) Bromochloromethane	4.55	128	32399	12.799 ug/L	94
25) Chloroform	4.67	83	123326	14.228 ug/L	99
27) 1,2-Dichloroethane	5.40	62	101168	15.295 ug/L	99
29) Cyclohexane	4.99	56	101613	12.133 ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	101922	13.873 ug/L	98
31) Carbon tetrachloride	5.13	117	84007	13.354 ug/L	100
33) Benzene	5.39	78	263684	13.239 ug/L	100
34) Trichloroethene	6.19	95	59961	11.532 ug/L	94
35) Methylcyclohexane	6.41	83	84623	11.084 ug/L	92
37) 1,2-Dichloropropane	6.43	63	75634	14.040 ug/L	99
38) Bromodichloromethane	6.76	83	92167	14.026 ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	88297	11.390 ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	216526	26.373 ug/L	95

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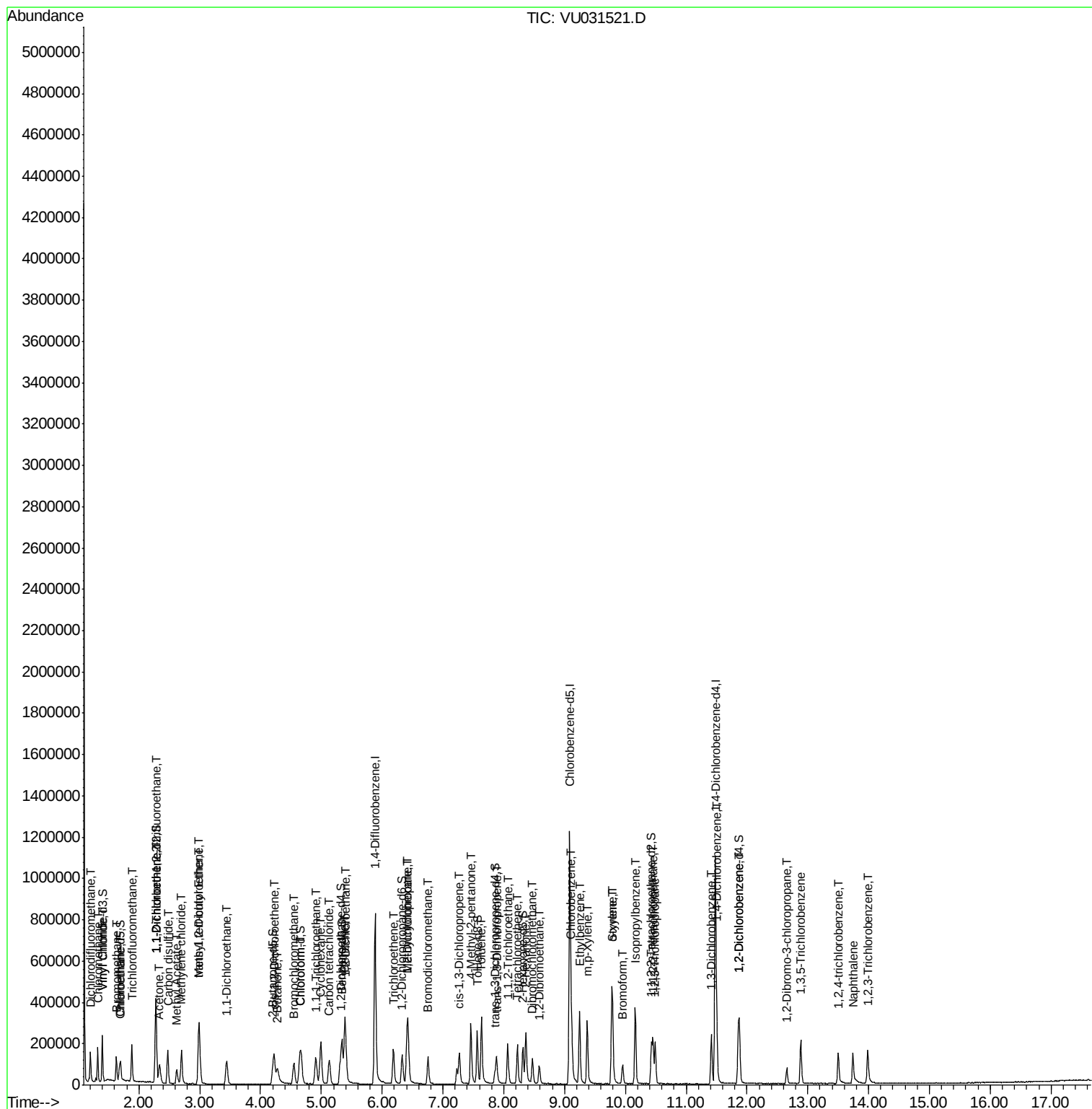
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	255526	12.476	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	83282	12.210	ug/L	94
45) 1,1,2-Trichloroethane	8.06	97	60580	12.525	ug/L	97
46) Tetrachloroethene	8.22	164	41861	11.616	ug/L	99
48) 2-Hexanone	8.36	43	173292	26.698	ug/L	94
49) Dibromochloromethane	8.47	129	61510	12.067	ug/L	98
50) 1,2-Dibromoethane	8.58	107	63037	12.513	ug/L	98
51) Chlorobenzene	9.12	112	152139	12.132	ug/L	99
52) Ethylbenzene	9.25	91	249791	11.443	ug/L	99
53) m,p-Xylene	9.37	106	83872	10.709	ug/L	98
54) o-xylene	9.78	106	83768	10.599	ug/L	98
55) Styrene	9.79	104	141525	10.637	ug/L	98
56) Isopropylbenzene	10.16	105	224189	11.014	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	108680	13.006	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	89275	13.643	ug/L	99
61) Bromoform	9.95	173	44736	13.106	ug/L	97
62) 1,3-Dichlorobenzene	11.42	146	96091	11.960	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	97594	12.116	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	102530	12.389	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	24401	15.138	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	68245	11.594	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	50286	10.631	ug/L	97
69) Naphthalene	13.74	128	152556	9.295	ug/L	96
70) 1,2,3-Trichlorobenzene	13.98	180	59870	11.645	ug/L	98

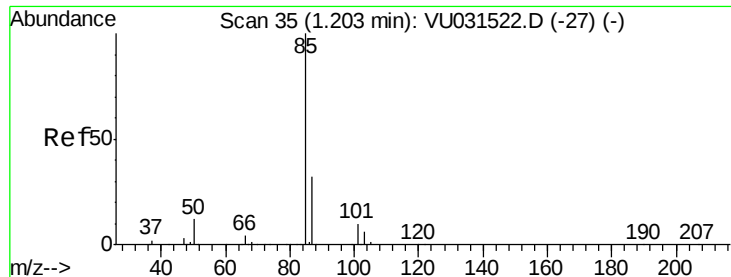
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 15.340 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

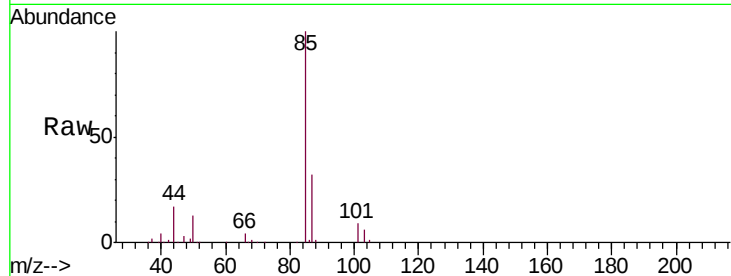
VSTD01050

Tgt Ion: 85 Resp: 82068

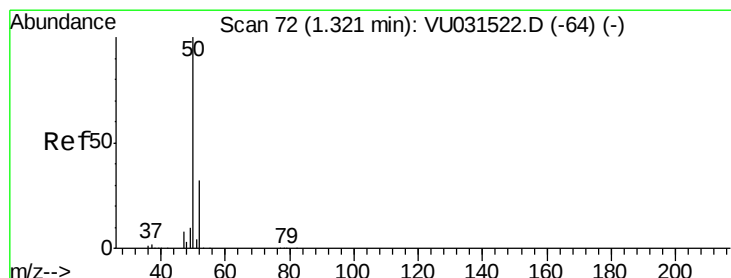
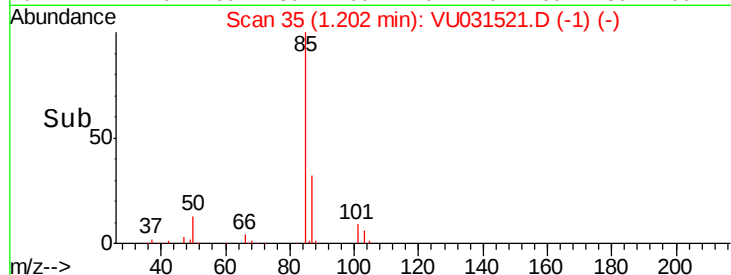
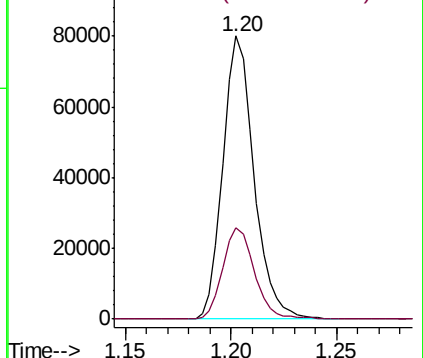
Ion Ratio Lower Upper

85 100

87 32.9 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031521.D (-1) (-)



#3

Chloromethane

Concen: 15.440 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031521.D

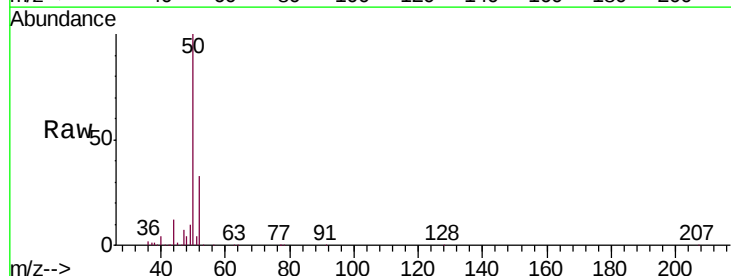
Acq: 26 Apr 2019 10:38

Tgt Ion: 50 Resp: 104577

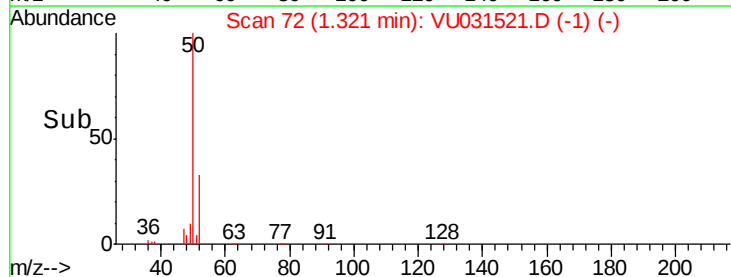
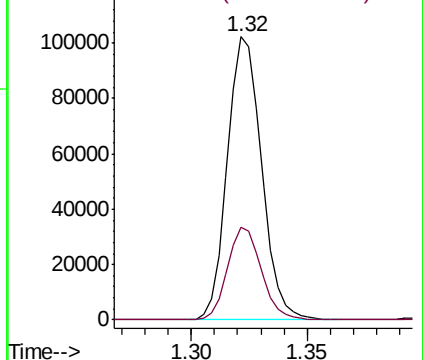
Ion Ratio Lower Upper

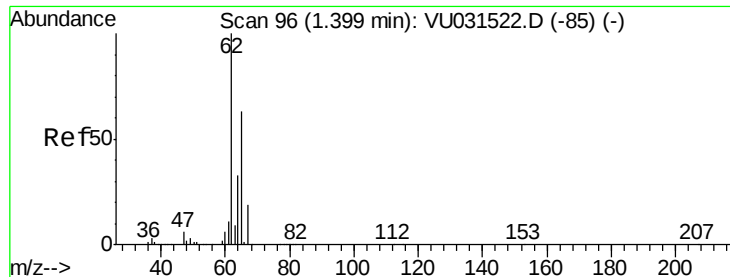
50 100

52 32.9 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031521.D (-1) (-)





#5

Vinyl chloride

Concen: 14.337 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

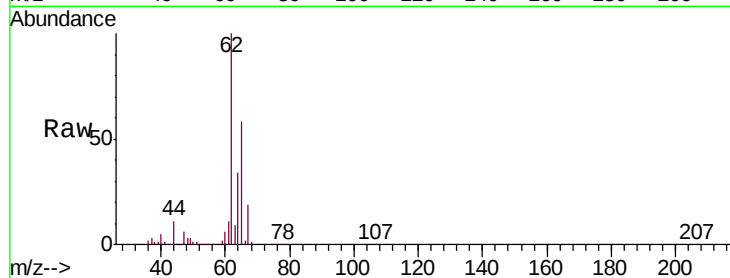
VSTD01050

Tgt Ion: 62 Resp: 93983

Ion Ratio Lower Upper

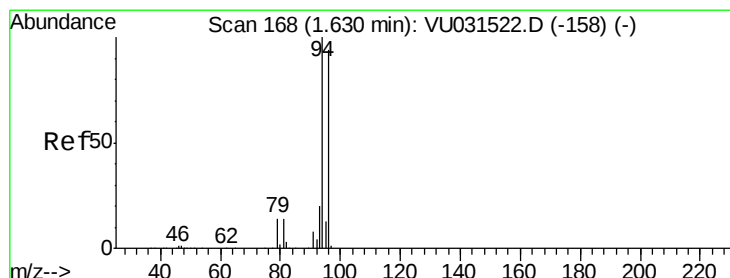
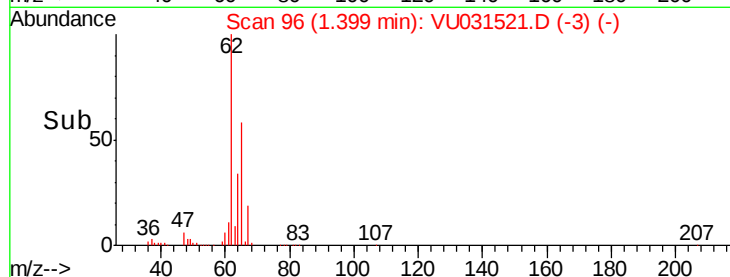
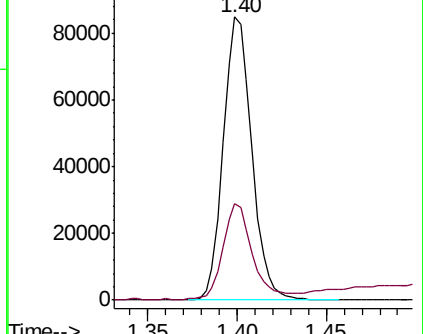
62 100

64 34.3 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031521.D (-85) (-)

Ion 64.00 (63.70 to 64.70): VU031521.D (-85) (-)



#6

Bromomethane

Concen: 13.226 ug/L

RT: 1.63 min Scan# 168

Delta R.T. -0.00 min

Lab File: VU031521.D

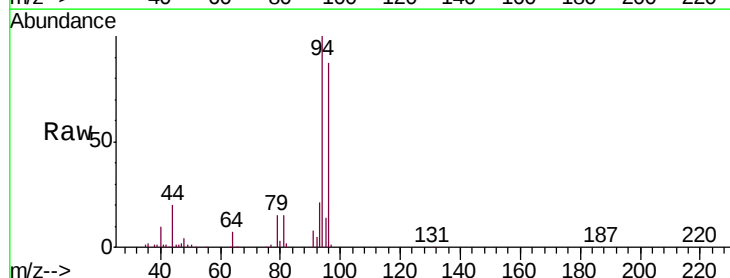
Acq: 26 Apr 2019 10:38

Tgt Ion: 94 Resp: 49077

Ion Ratio Lower Upper

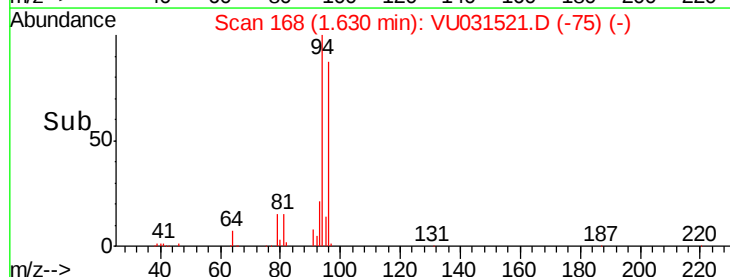
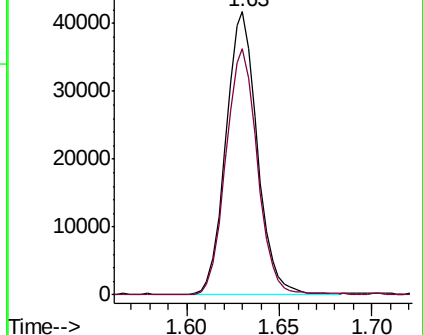
94 100

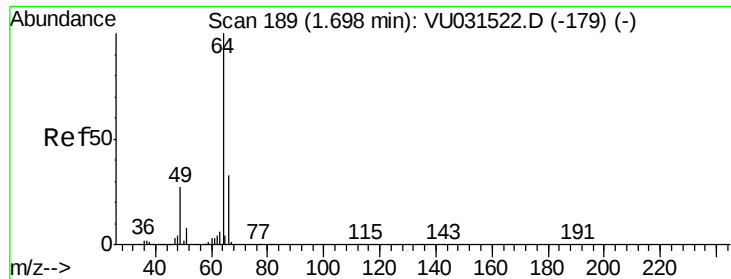
96 87.0 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031521.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU031521.D (-158) (-)

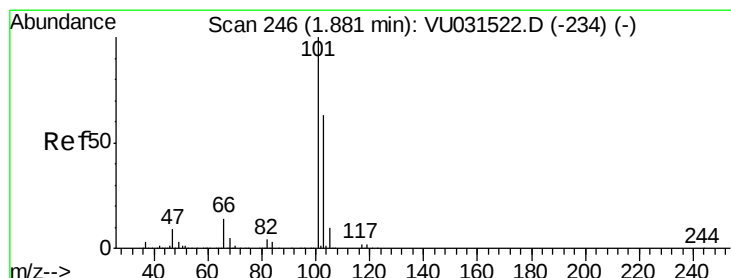
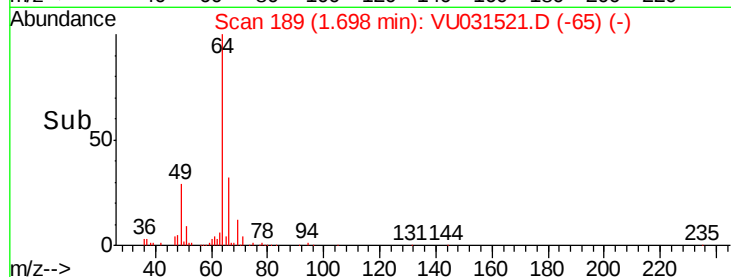
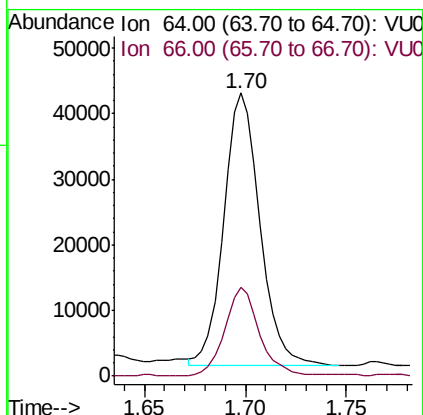
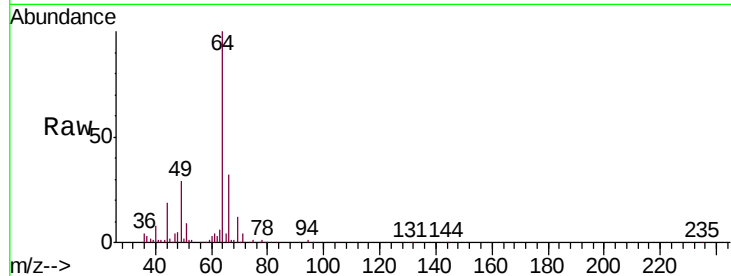




#8
Chloroethane
Concen: 14.059 ug/L
RT: 1.70 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

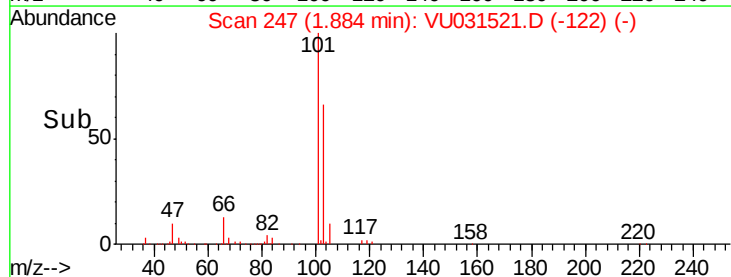
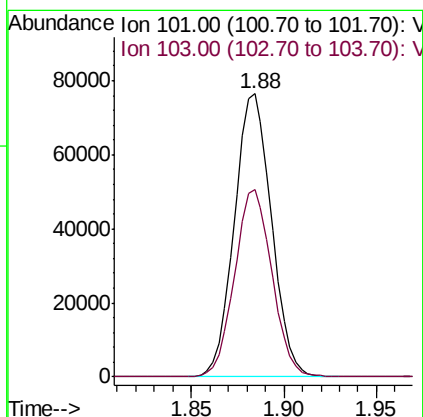
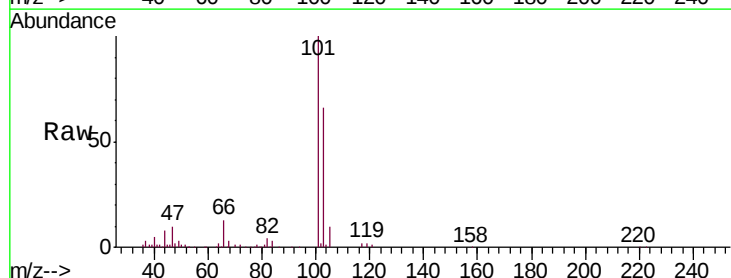
Instrument :
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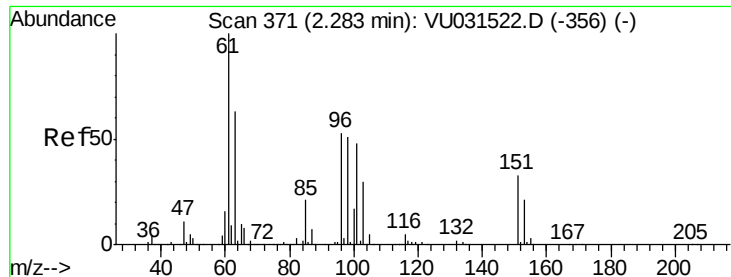
Tgt Ion: 64 Resp: 52041
Ion Ratio Lower Upper
64 100
66 31.6 23.2 43.0



#9
Trichlorofluoromethane
Concen: 13.782 ug/L
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

Tgt Ion: 101 Resp: 106476
Ion Ratio Lower Upper
101 100
103 66.4 50.8 76.2





#10

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

Concen: 13.507 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD01050

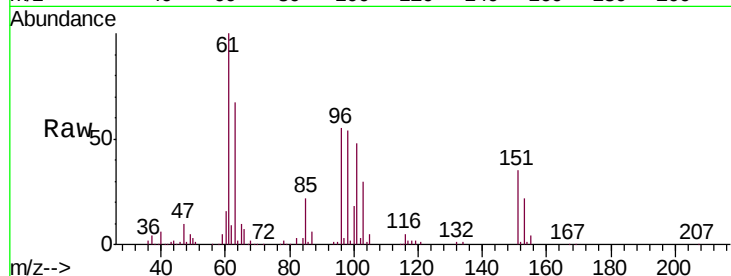
Tgt Ion: 101 Resp: 59954

Ion Ratio Lower Upper

101 100

85 45.6 36.1 54.1

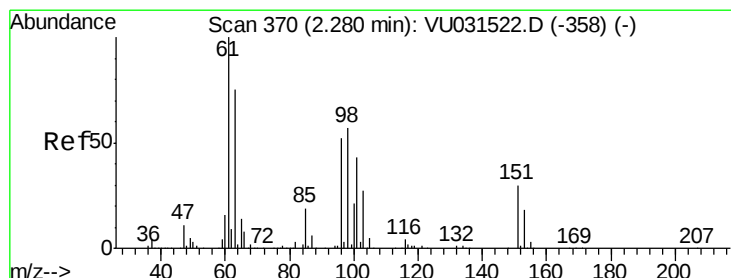
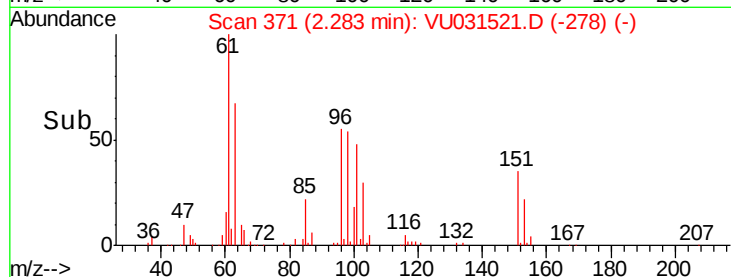
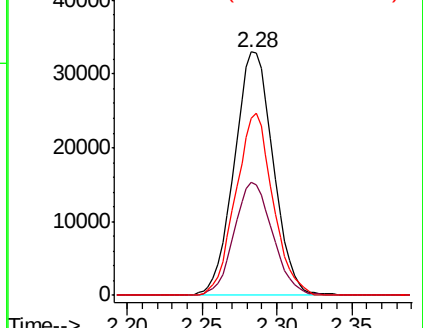
151 71.4 56.1 84.1



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: 13.395 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

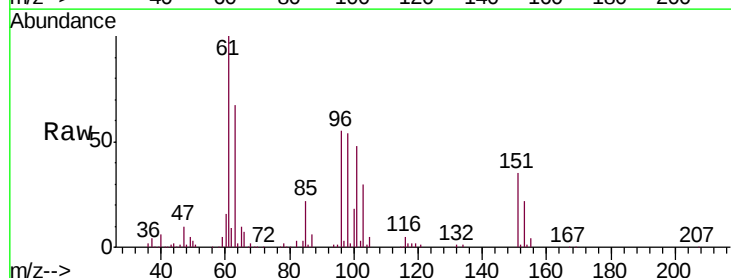
Tgt Ion: 96 Resp: 58462

Ion Ratio Lower Upper

96 100

61 180.3 135.0 250.6

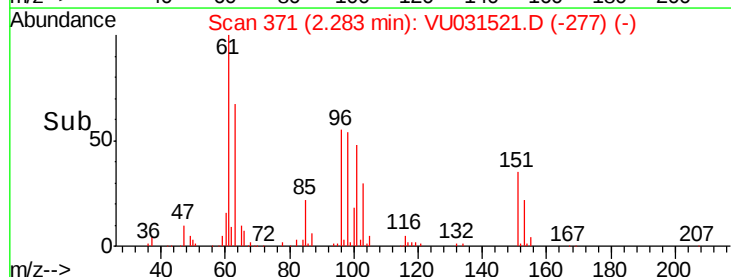
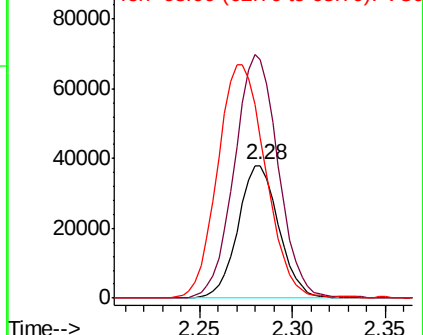
63 121.0 103.5 192.3

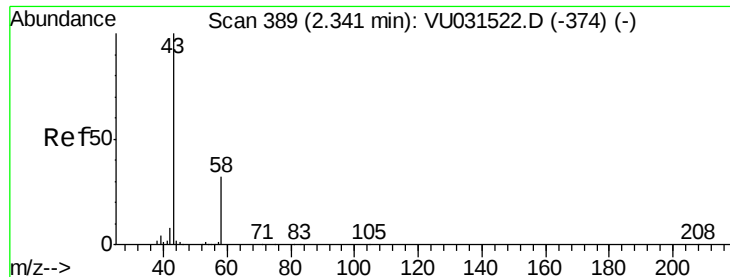


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 36.145 ug/L

RT: 2.34 min Scan# 388

Delta R.T. -0.00 min

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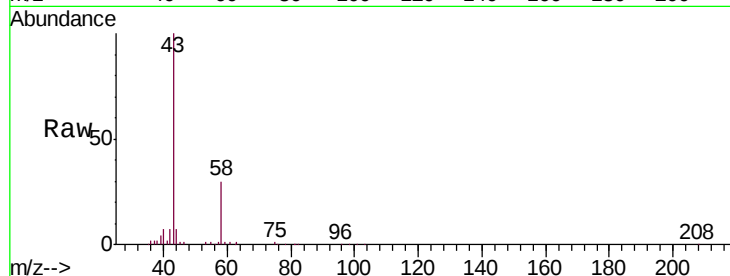
VSTD01050

Tgt Ion: 43 Resp: 135876

Ion Ratio Lower Upper

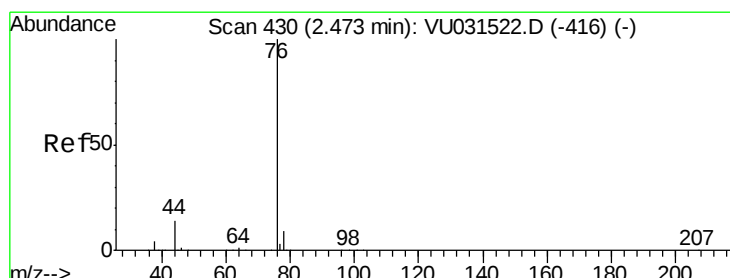
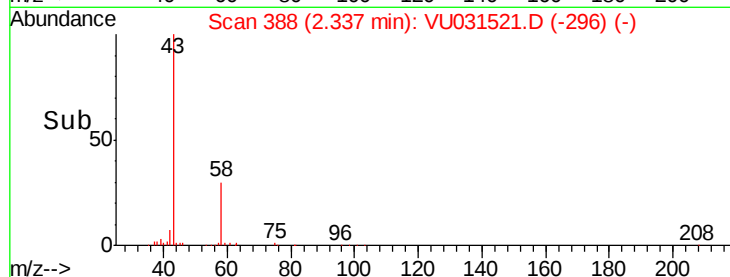
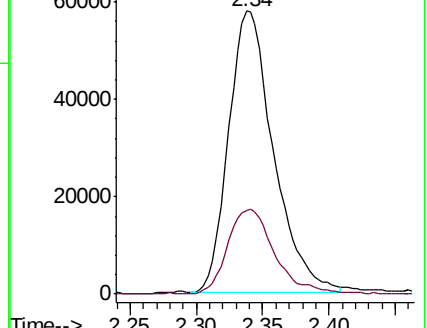
43 100

58 31.7 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031522.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031522.D (-374) (-)



#14

Carbon disulfide

Concen: 14.563 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU031521.D

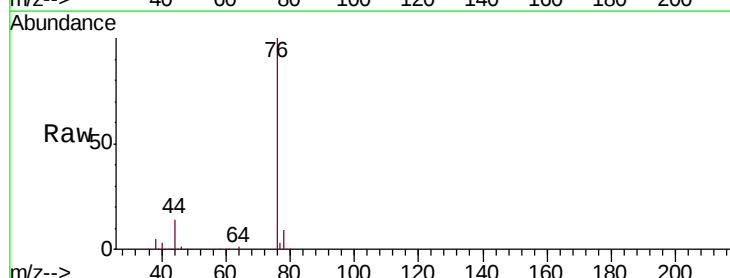
Acq: 26 Apr 2019 10:38

Tgt Ion: 76 Resp: 196158

Ion Ratio Lower Upper

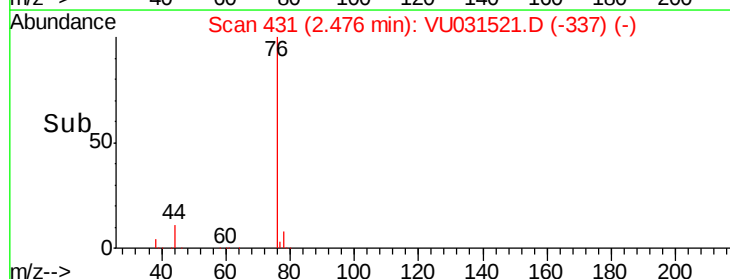
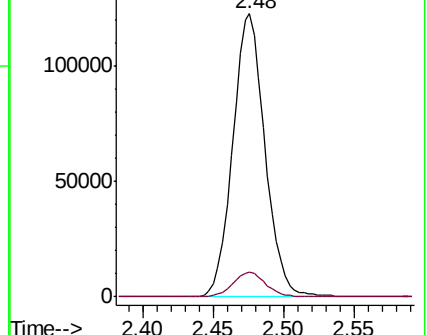
76 100

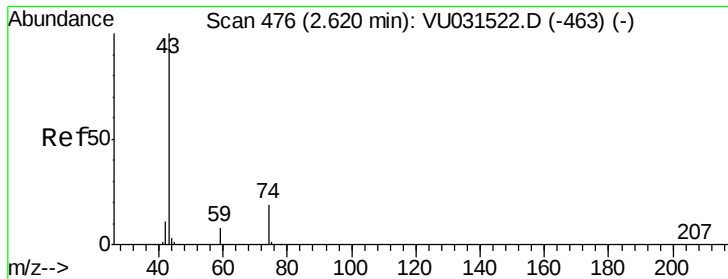
78 8.6 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031522.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU031522.D (-416) (-)

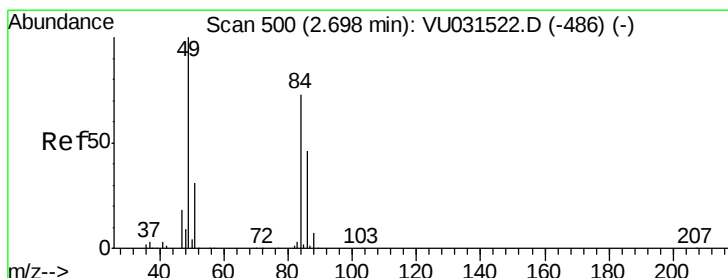
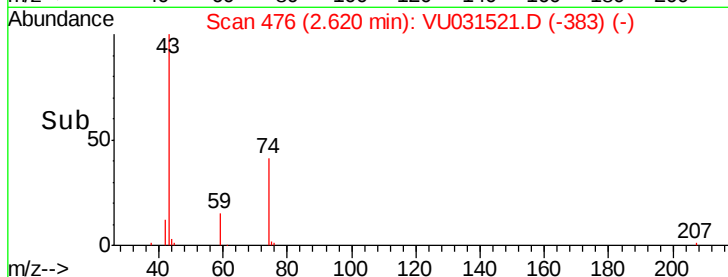
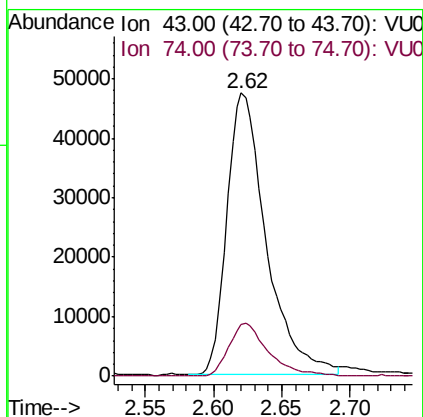
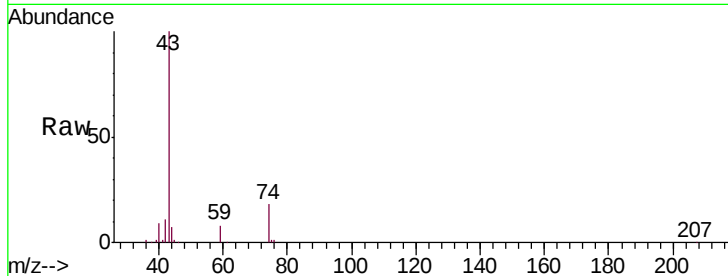




#15
Methyl Acetate
Concen: 14.597 ug/L
RT: 2.62 min Scan# 476
Delta R.T. -0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

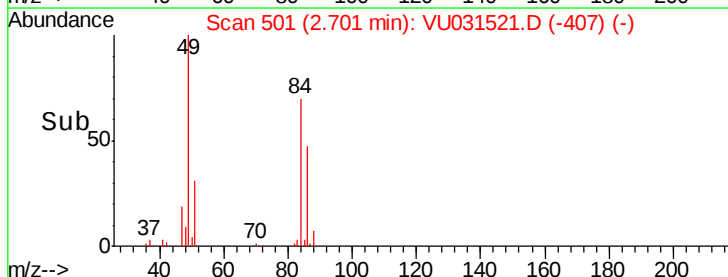
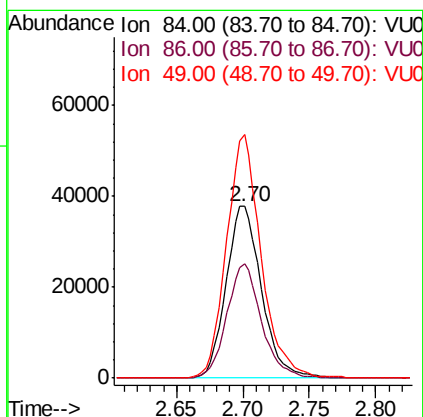
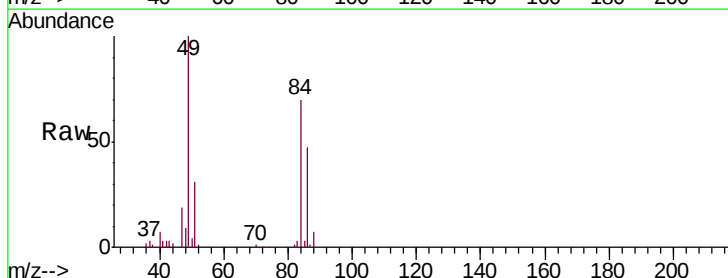
Instrument :
MSVOA_U
ClientSampleId :
VSTD01050

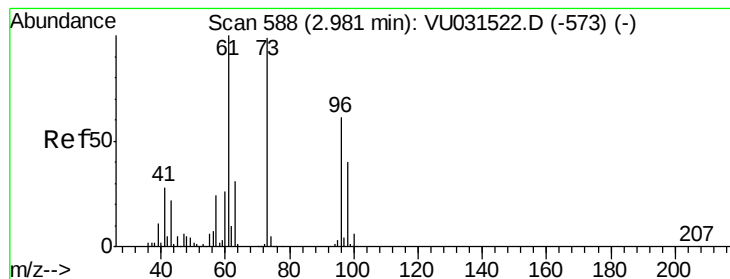
Tgt Ion: 43 Resp: 95510
Ion Ratio Lower Upper
43 100
74 18.8 15.7 23.5



#16
Methylene chloride
Concen: 13.954 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

Tgt Ion: 84 Resp: 70131
Ion Ratio Lower Upper
84 100
86 66.7 44.7 83.1
49 141.9 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 13.424 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD01050

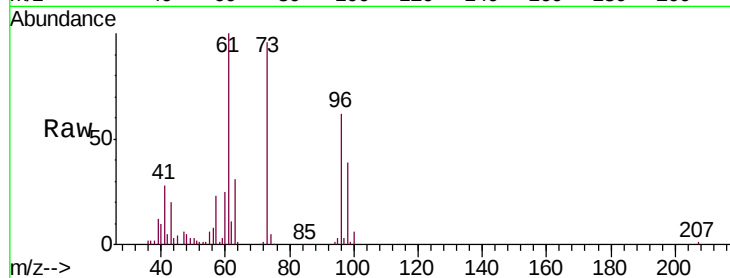
Tgt Ion: 96 Resp: 60462

Ion Ratio Lower Upper

96 100

61 162.2 114.5 212.7

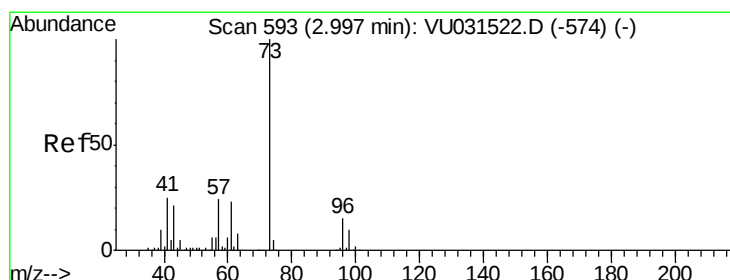
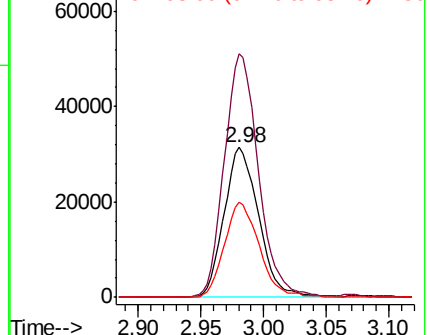
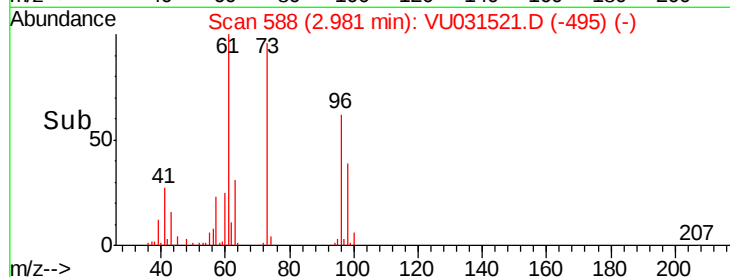
98 63.4 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031521.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU031521.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU031521.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 12.445 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

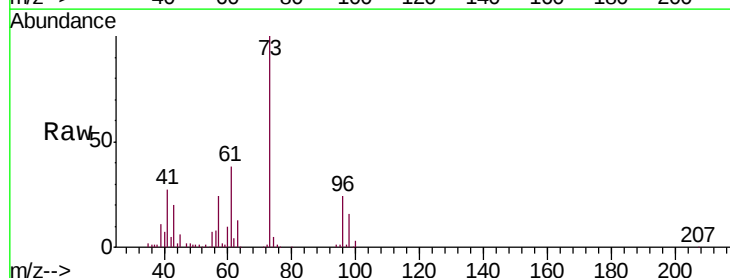
Tgt Ion: 73 Resp: 184340

Ion Ratio Lower Upper

73 100

43 21.5 17.0 25.4

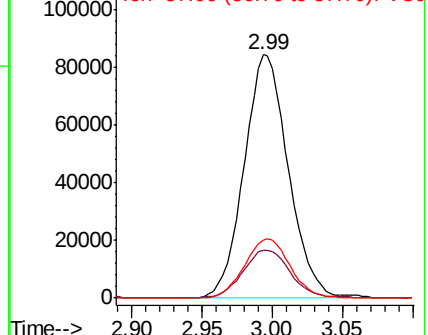
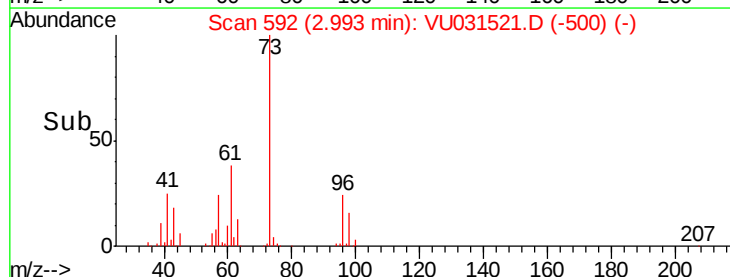
57 25.0 19.5 29.3

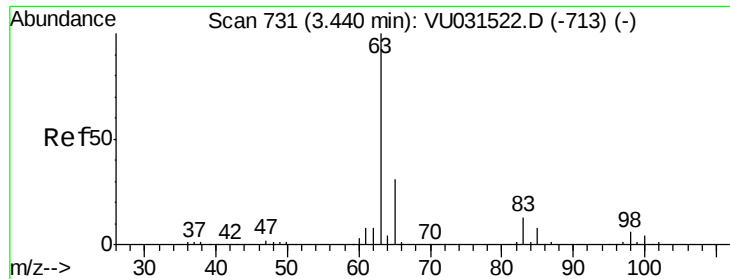


Abundance Ion 73.00 (72.70 to 73.70): VU031521.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU031521.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU031521.D (-500) (-)

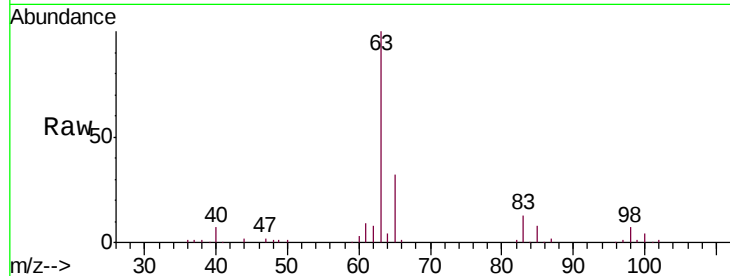




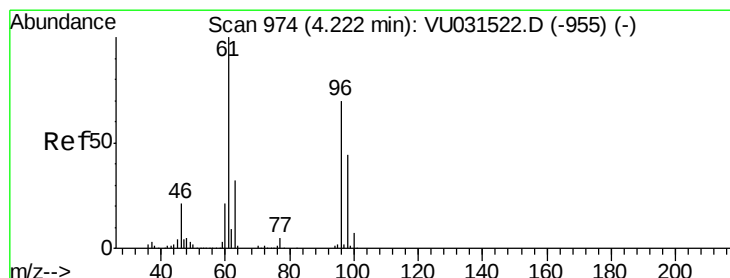
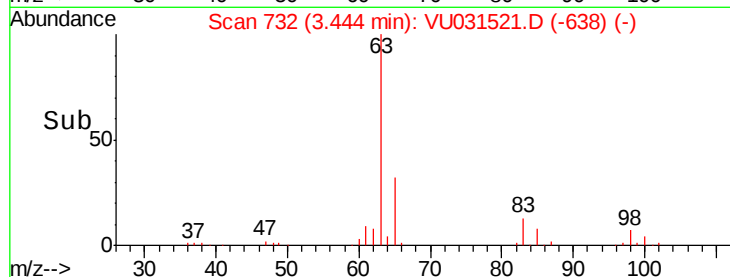
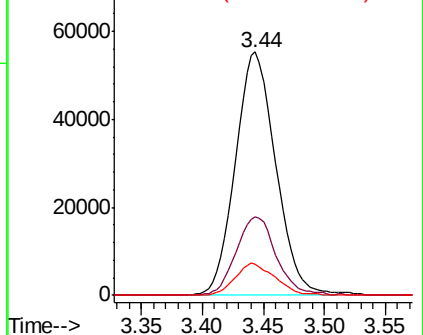
#19
 1,1-Dichloroethane
 Concen: 14.003 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU031521.D
 Acq: 26 Apr 2019 10:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01050

Tgt Ion: 63 Resp: 126726
 Ion Ratio Lower Upper
 63 100
 65 32.2 22.0 40.8
 83 13.0 8.8 16.4

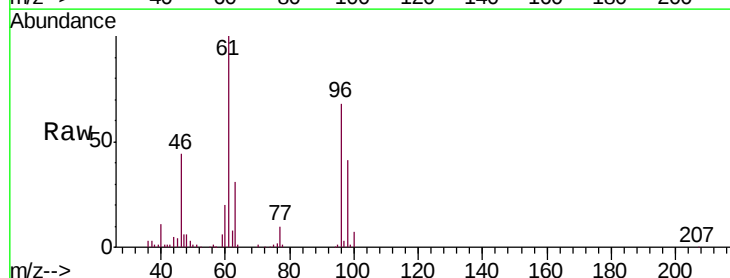


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

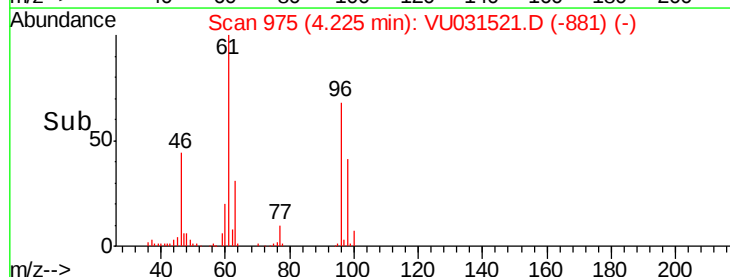
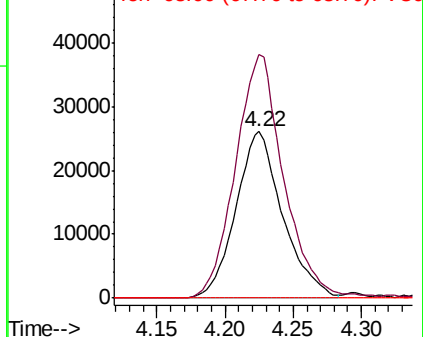


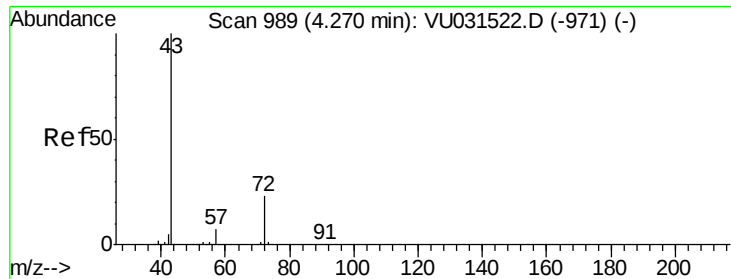
#20
 cis-1,2-Dichloroethene
 Concen: 12.211 ug/L
 RT: 4.22 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU031521.D
 Acq: 26 Apr 2019 10:38

Tgt Ion: 96 Resp: 62260
 Ion Ratio Lower Upper
 96 100
 61 146.2 99.5 184.7
 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: 30.270 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.01 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

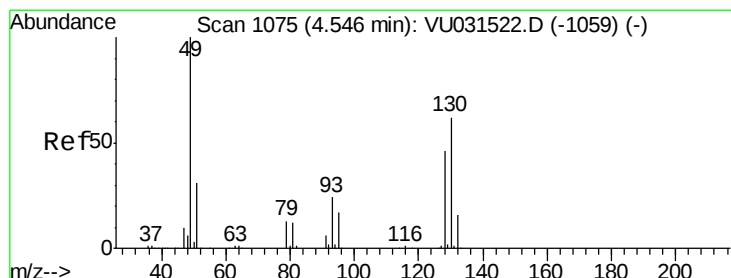
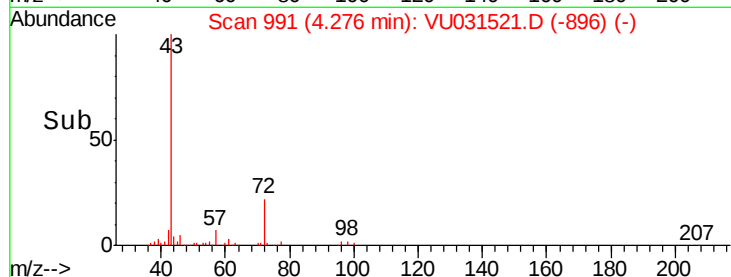
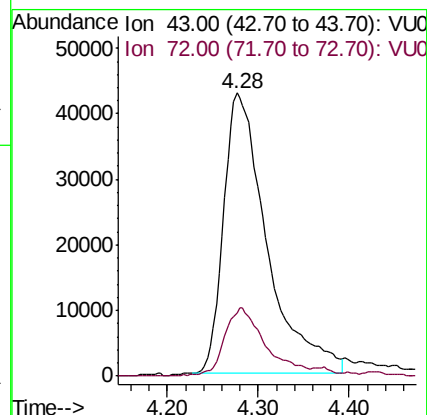
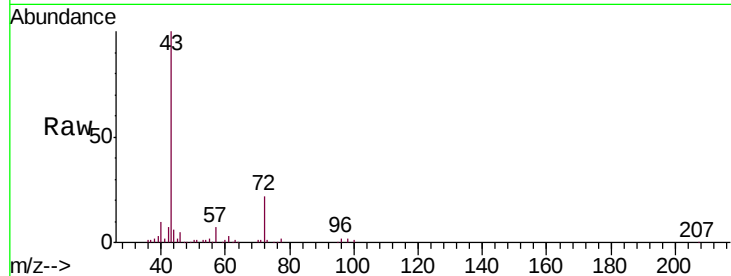
VSTD01050

Tgt Ion: 43 Resp: 142022

Ion Ratio Lower Upper

43 100

72 21.6 11.4 34.2



#23

Bromochloromethane

Concen: 12.799 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Tgt Ion: 128 Resp: 32399

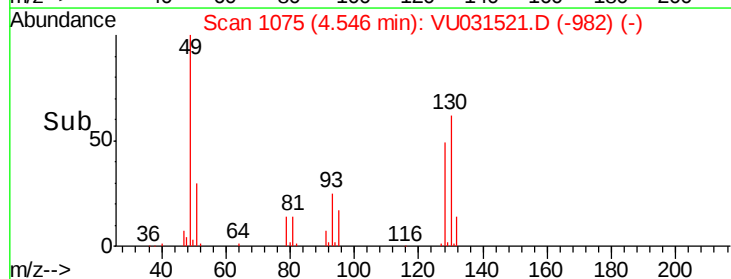
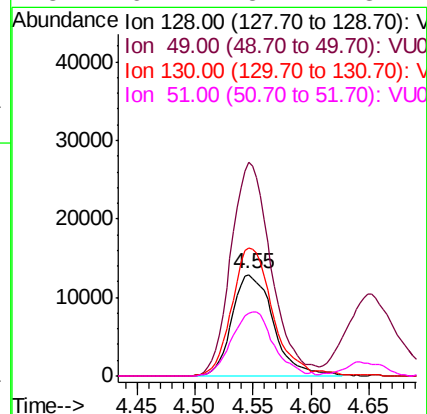
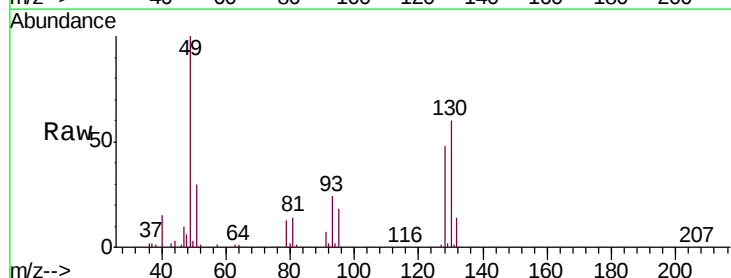
Ion Ratio Lower Upper

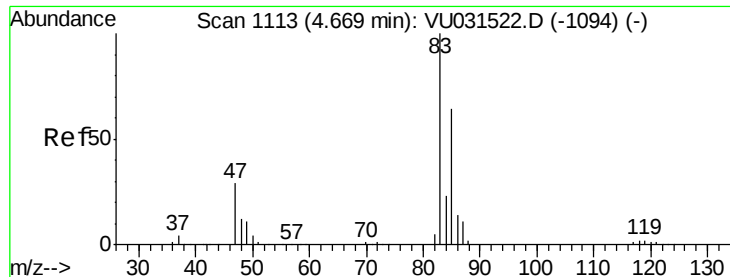
128 100

49 210.2 152.6 283.4

130 126.5 93.7 173.9

51 62.2 54.2 81.4

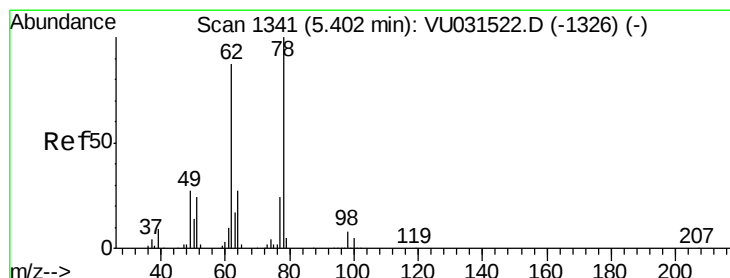
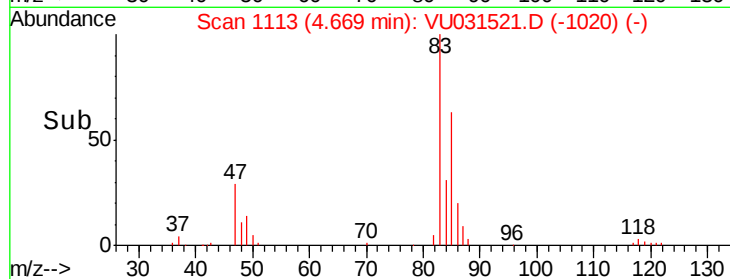
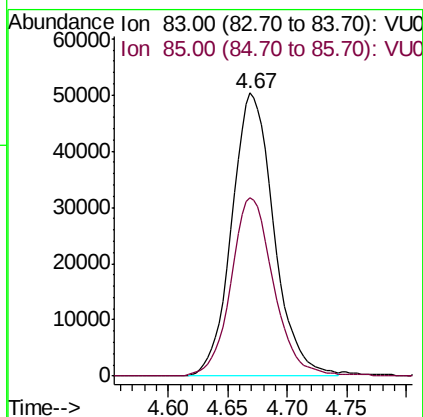
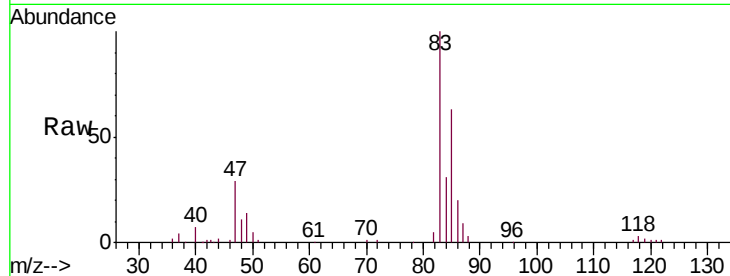




#25
Chloroform
Concen: 14.228 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

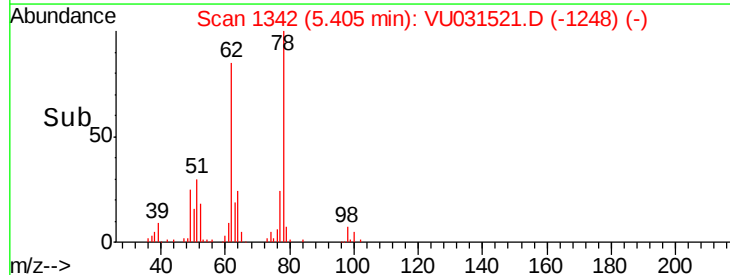
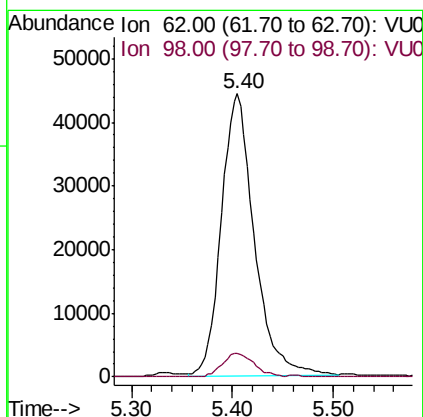
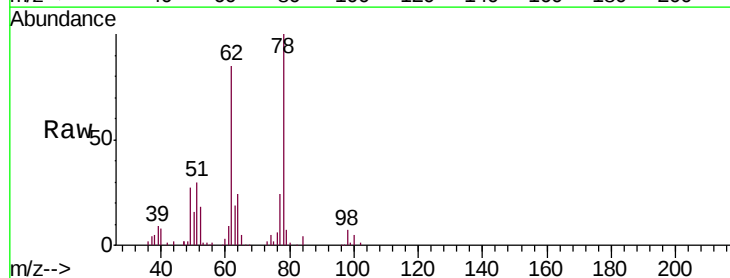
Instrument :
MSVOA_U
ClientSampleId :
VSTD01050

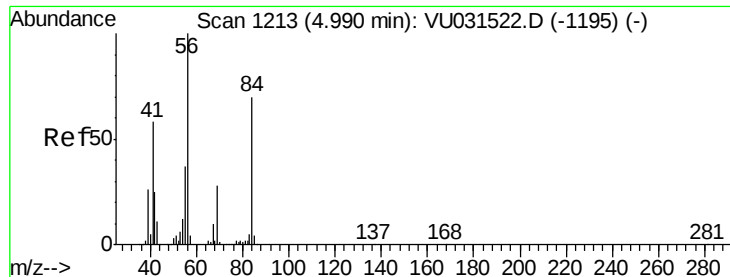
Tgt Ion: 83 Resp: 123326
Ion Ratio Lower Upper
83 100
85 63.0 44.9 83.3



#27
1,2-Dichloroethane
Concen: 15.295 ug/L
RT: 5.40 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

Tgt Ion: 62 Resp: 101168
Ion Ratio Lower Upper
62 100
98 8.4 7.1 10.7

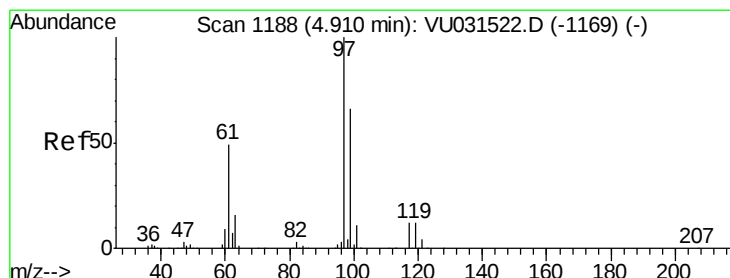
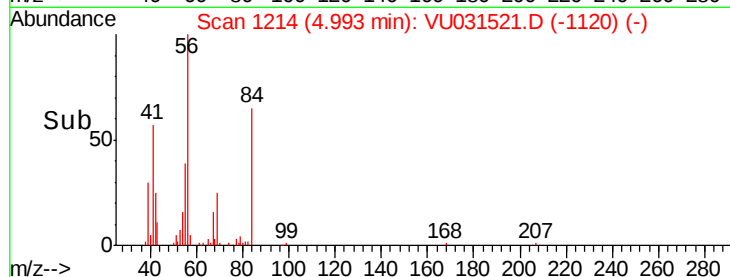
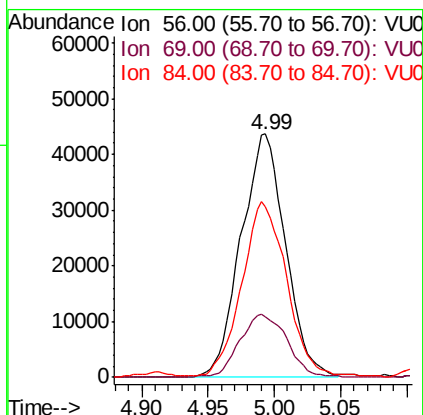
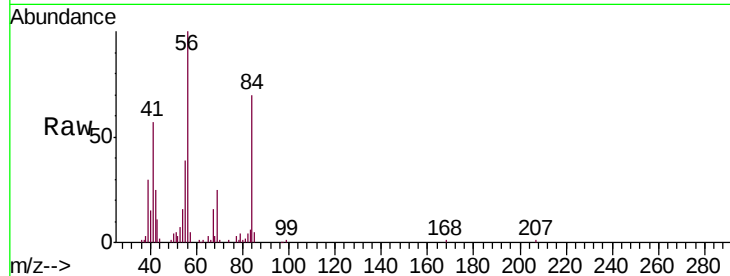




#29
Cyclohexane
Concen: 12.133 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

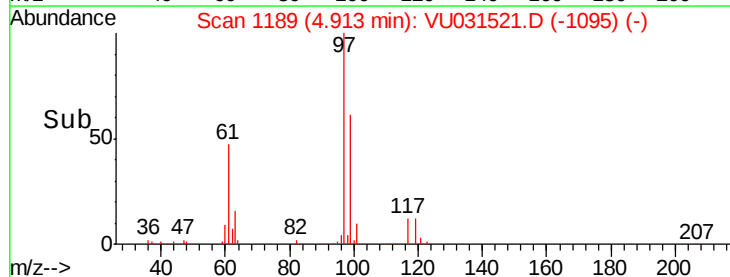
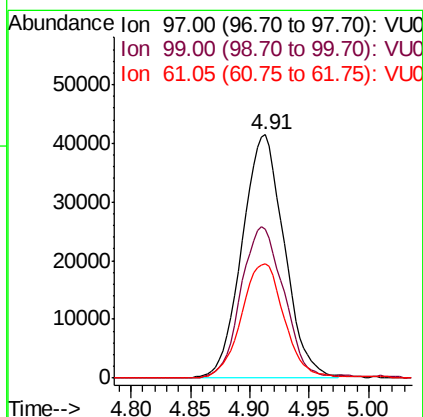
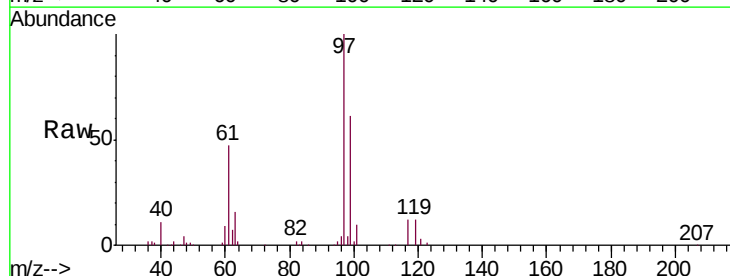
Instrument :
MSVOA_U
ClientSampleId :
VSTD01050

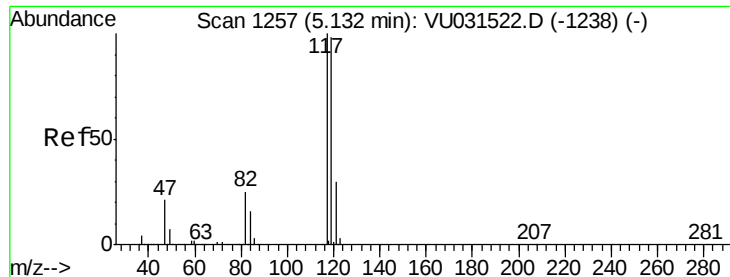
Tgt Ion: 56 Resp: 101613
Ion Ratio Lower Upper
56 100
69 27.5 22.3 33.5
84 72.8 57.5 86.3



#30
1,1,1-Trichloroethane
Concen: 13.873 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

Tgt Ion: 97 Resp: 101922
Ion Ratio Lower Upper
97 100
99 63.0 52.0 78.0
61 47.6 38.7 58.1





#31

Carbon tetrachloride

Concen: 13.354 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

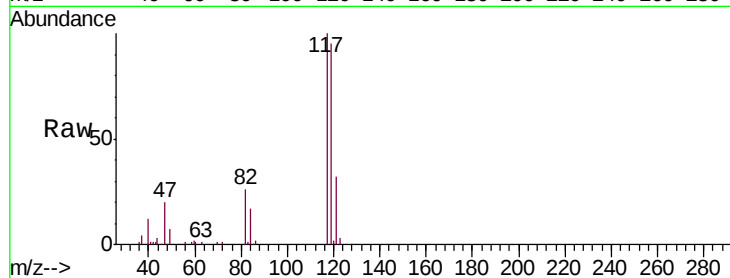
VSTD01050

Tgt Ion:117 Resp: 84007

Ion Ratio Lower Upper

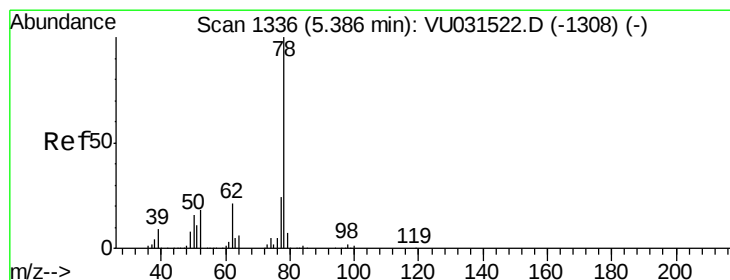
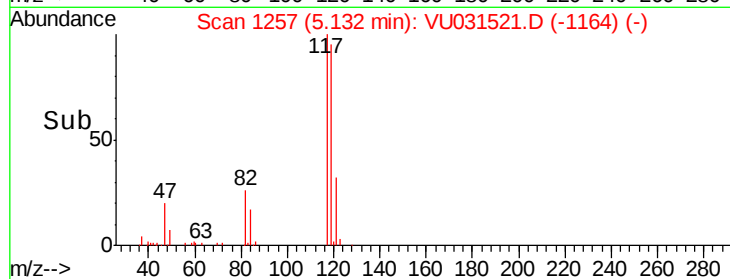
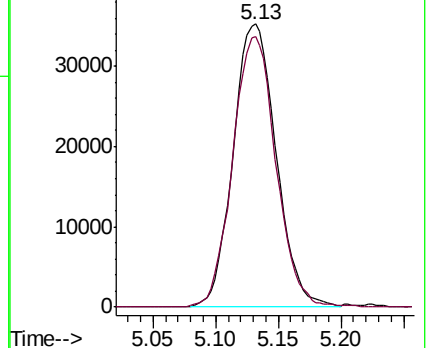
117 100

119 96.0 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 13.239 ug/L

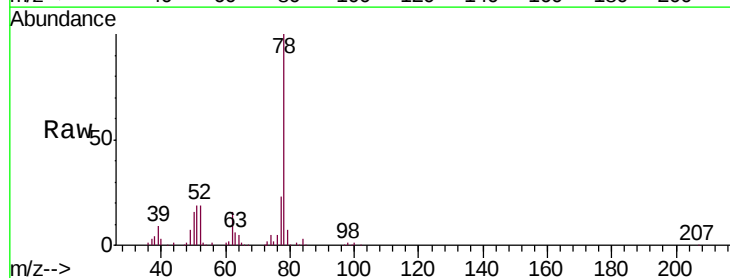
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

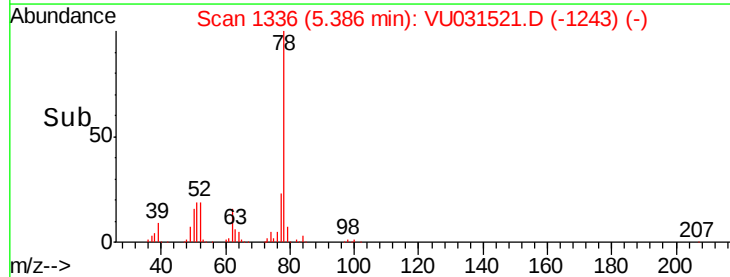
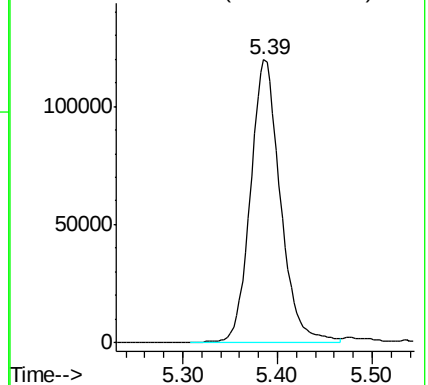
Lab File: VU031521.D

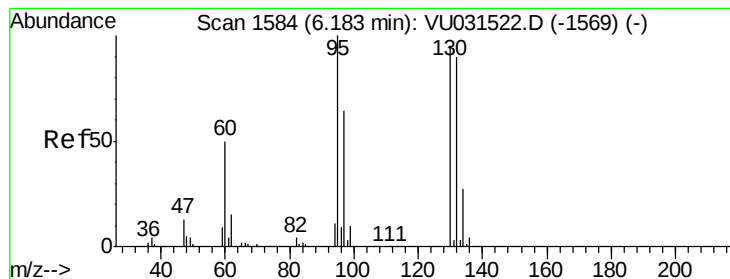
Acq: 26 Apr 2019 10:38

Tgt Ion: 78 Resp: 263684



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 11.532 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD01050

Tgt Ion: 95 Resp: 59961

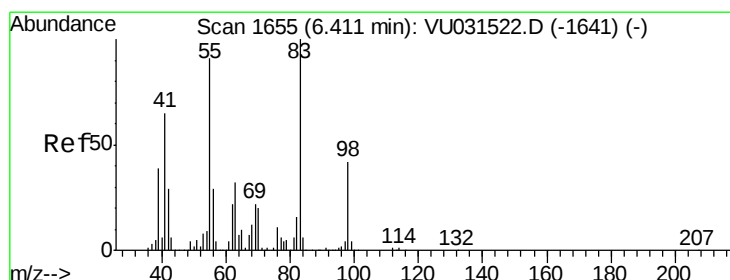
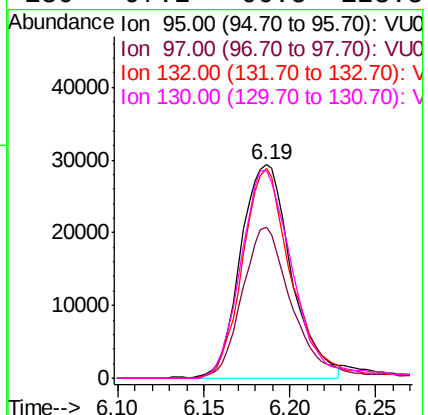
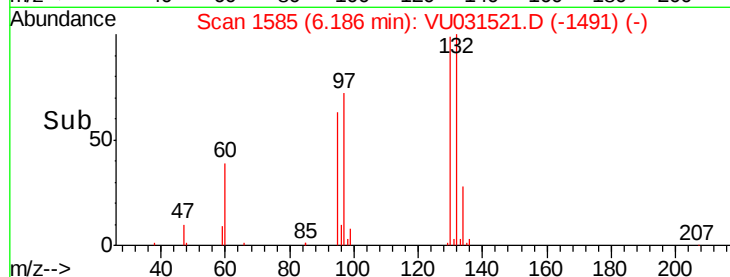
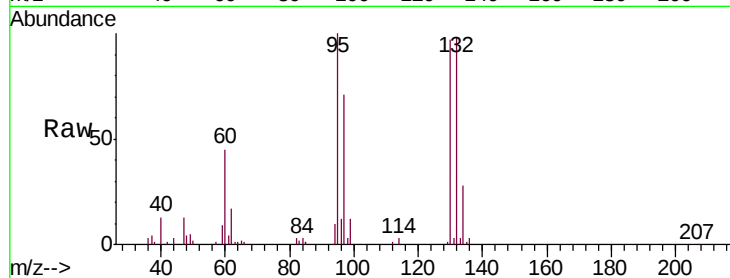
Ion Ratio Lower Upper

95 100

97 70.8 44.8 83.2

132 98.3 63.1 117.1

130 97.2 66.5 123.5



#35

Methylcyclohexane

Concen: 11.084 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

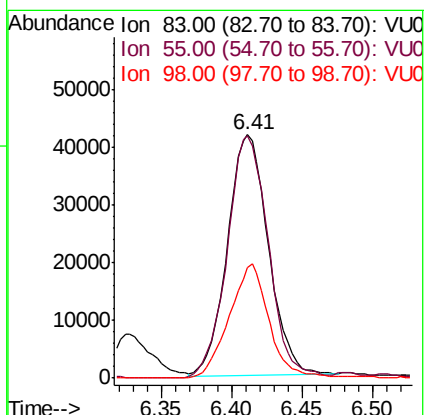
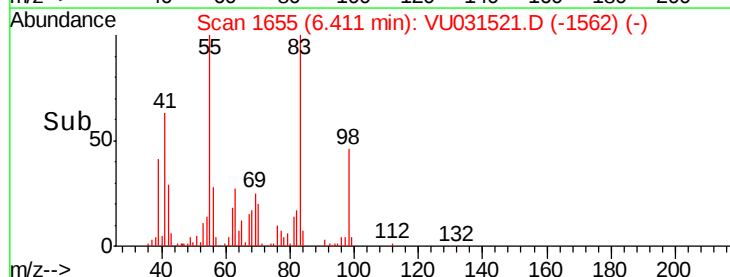
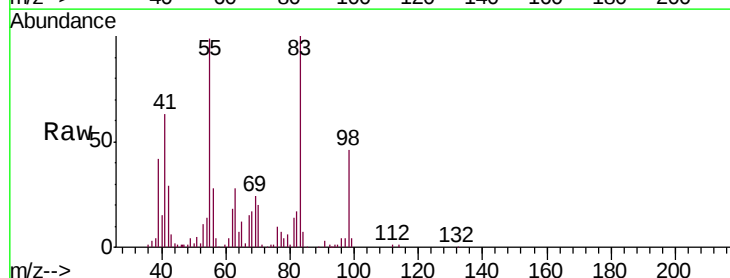
Tgt Ion: 83 Resp: 84623

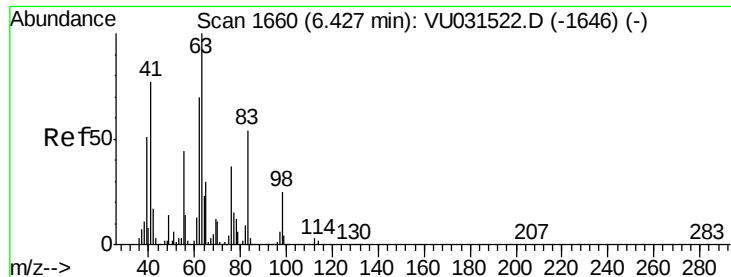
Ion Ratio Lower Upper

83 100

55 101.7 73.0 109.4

98 45.5 35.3 52.9





#37

1,2-Dichloropropane

Concen: 14.040 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

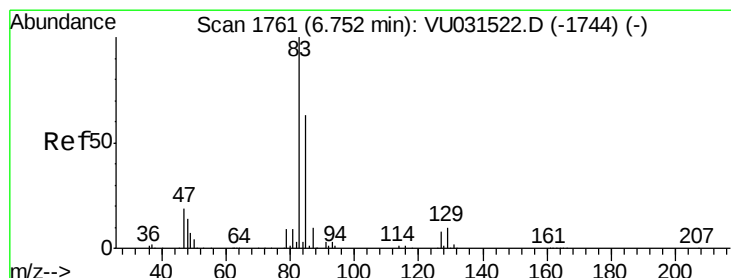
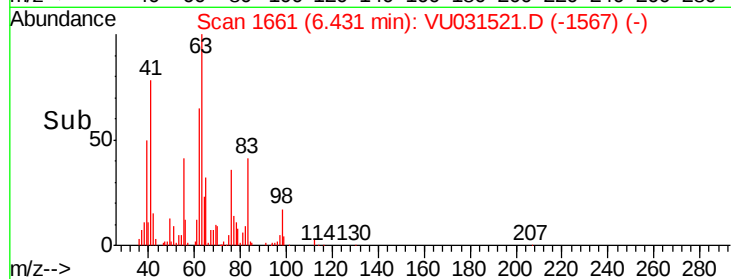
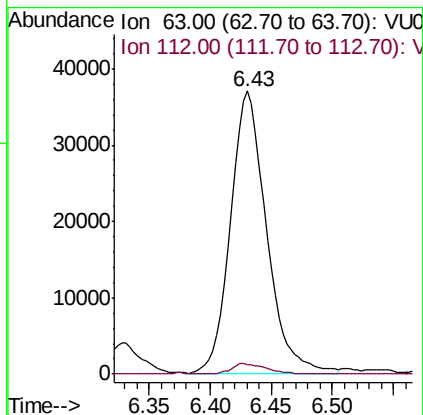
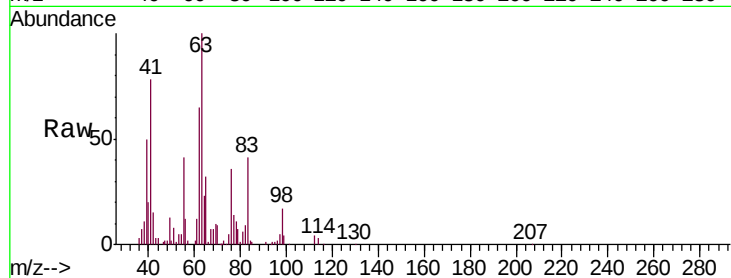
VSTD01050

Tgt Ion: 63 Resp: 75634

Ion Ratio Lower Upper

63 100

112 3.6 2.7 4.1



#38

Bromodichloromethane

Concen: 14.026 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

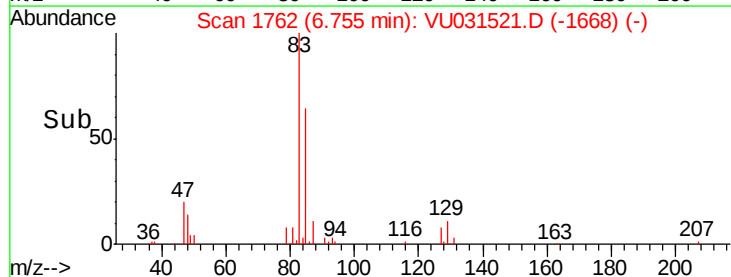
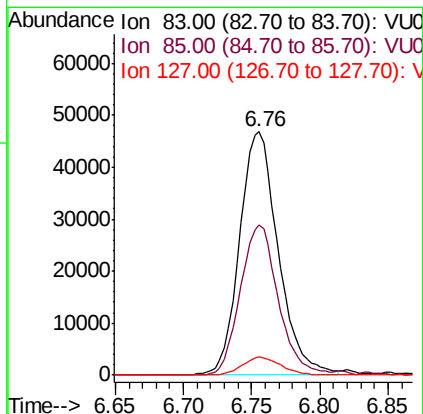
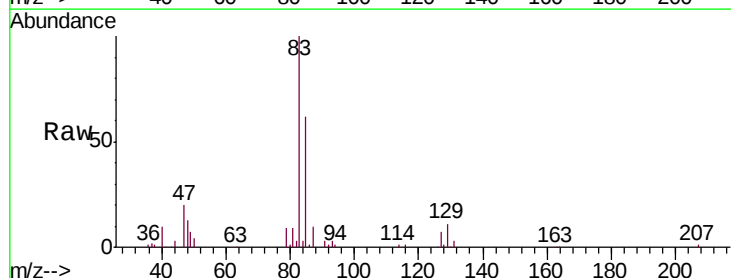
Tgt Ion: 83 Resp: 92167

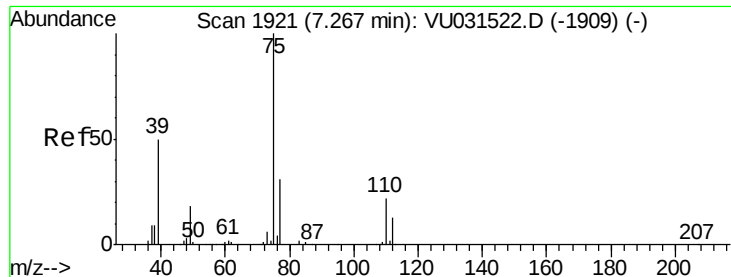
Ion Ratio Lower Upper

83 100

85 61.8 43.7 81.1

127 7.4 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 11.390 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

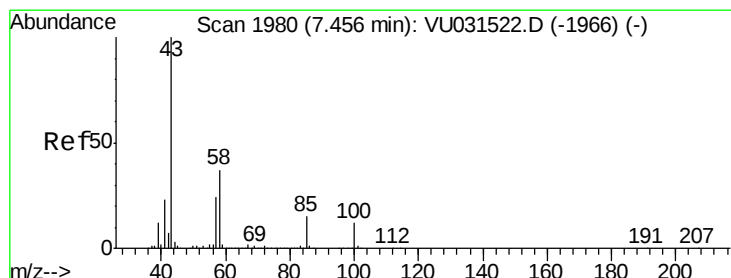
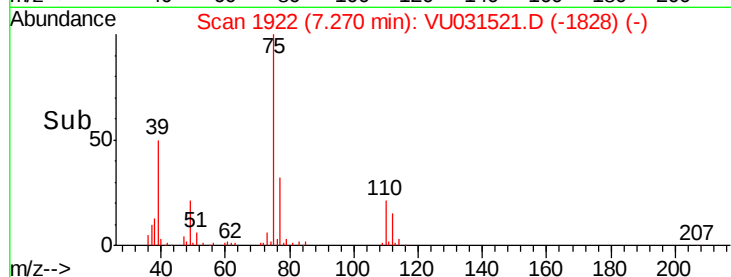
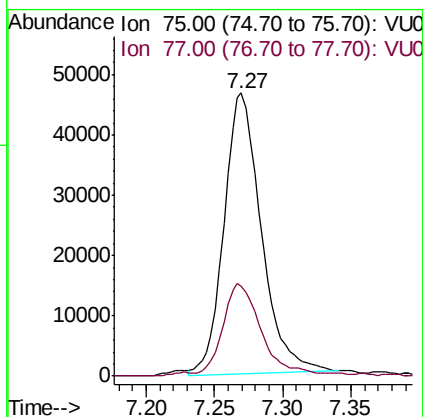
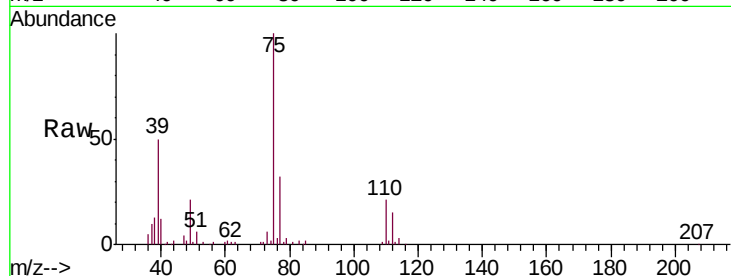
VSTD01050

Tgt Ion: 75 Resp: 88297

Ion Ratio Lower Upper

75 100

77 31.7 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 26.373 ug/L

RT: 7.46 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

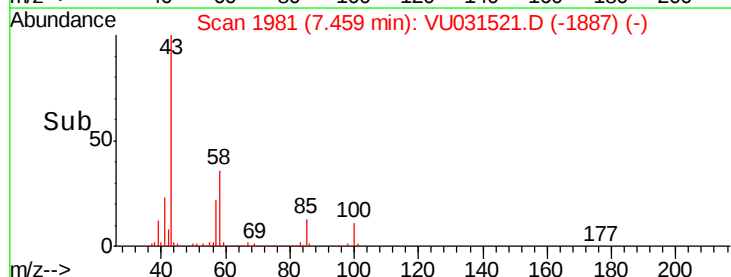
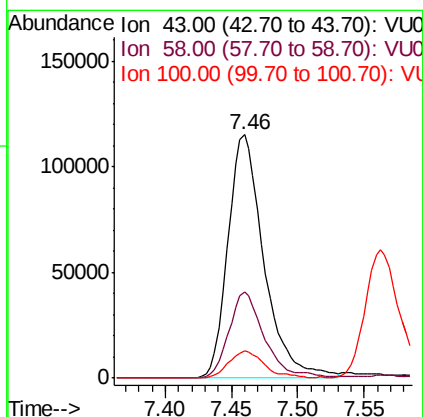
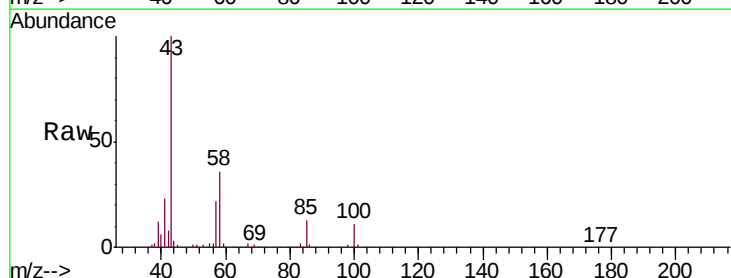
Tgt Ion: 43 Resp: 216526

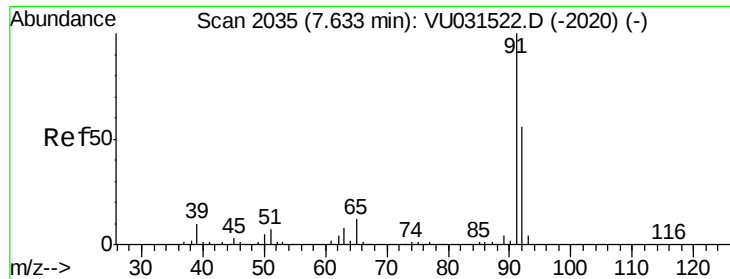
Ion Ratio Lower Upper

43 100

58 33.8 30.1 45.1

100 11.0 9.6 14.4





#42

Toluene

Concen: 12.476 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

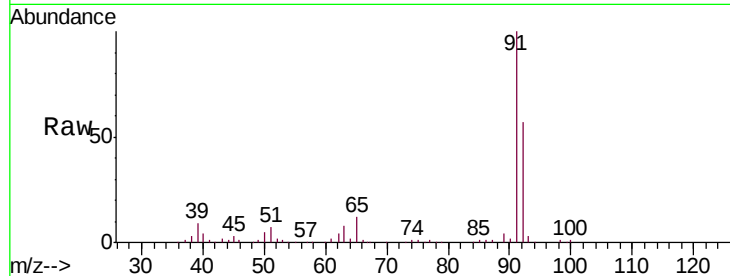
VSTD01050

Tgt Ion: 91 Resp: 25526

Ion Ratio Lower Upper

91 100

92 57.3 39.0 72.4



Abundance Ion 91.00 (90.70 to 91.70): VU031521.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU031521.D (-1942) (-)

7.64

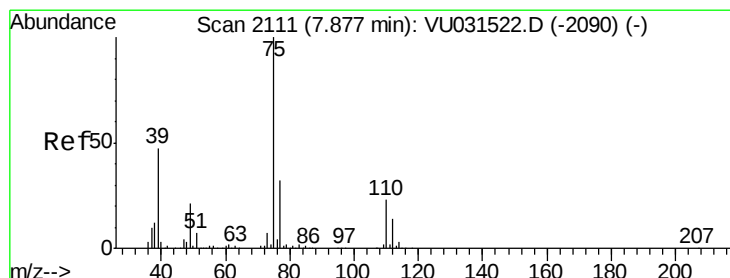
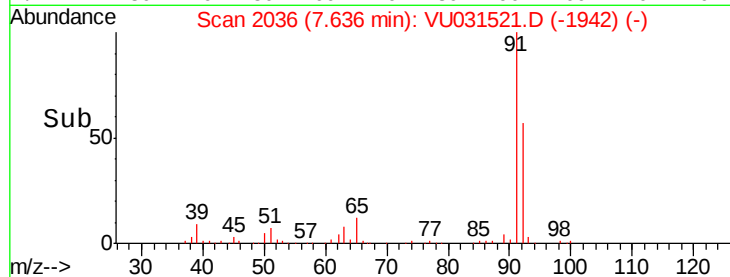
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 12.210 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU031521.D

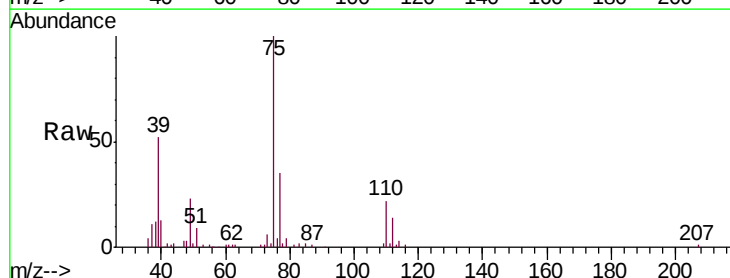
Acq: 26 Apr 2019 10:38

Tgt Ion: 75 Resp: 83282

Ion Ratio Lower Upper

75 100

77 34.7 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU031521.D (-2018) (-)

Ion 77.00 (76.70 to 77.70): VU031521.D (-2018) (-)

7.88

40000

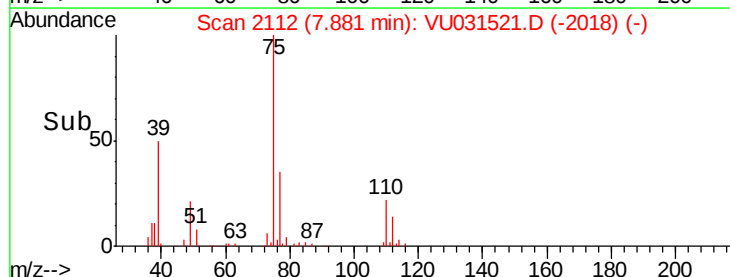
30000

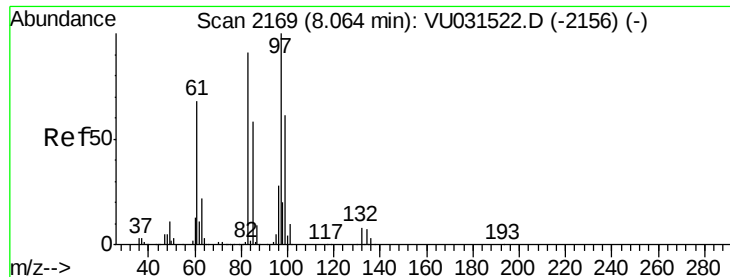
20000

10000

0

Time-->

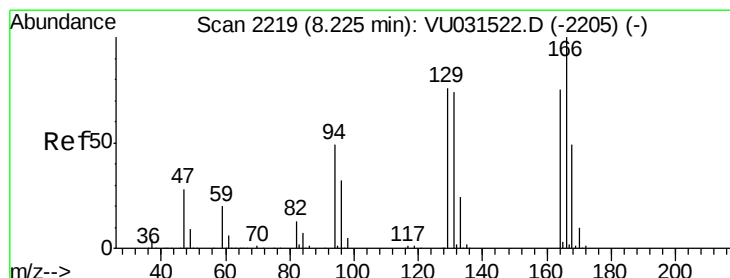
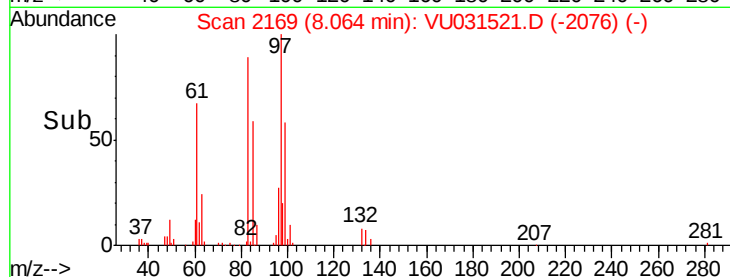
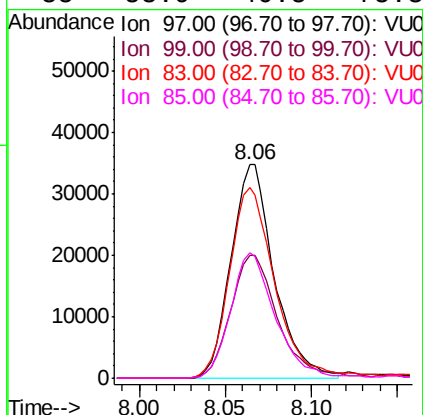
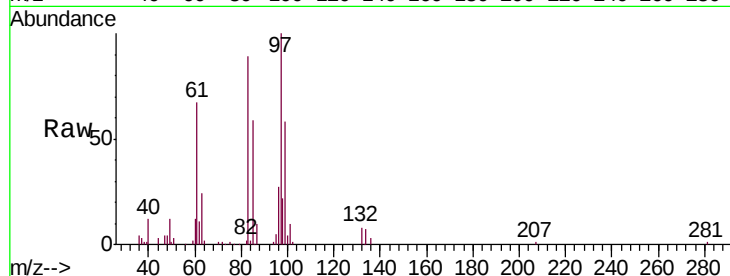




#45
 1,1,2-Trichloroethane
 Concen: 12.525 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031521.D
 Acq: 26 Apr 2019 10:38

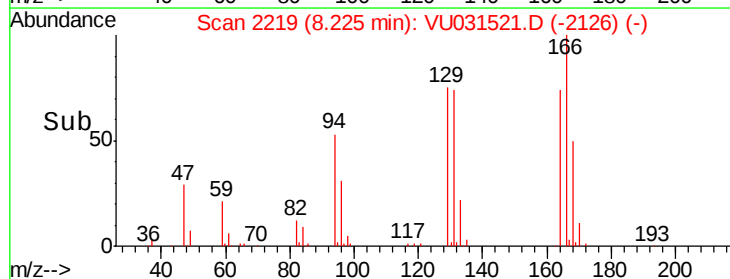
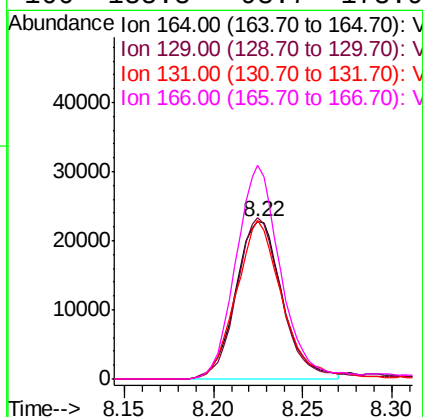
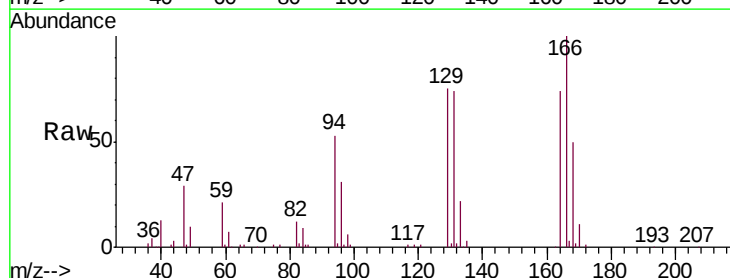
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01050

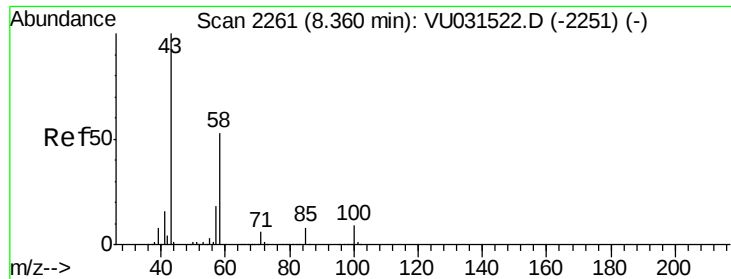
Tgt Ion:	97	Resp:	60580
Ion	Ratio	Lower	Upper
97	100		
99	57.7	43.0	80.0
83	89.2	63.6	118.2
85	58.9	40.5	75.3



#46
 Tetrachloroethene
 Concen: 11.616 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031521.D
 Acq: 26 Apr 2019 10:38

Tgt Ion:	164	Resp:	41861
Ion	Ratio	Lower	Upper
164	100		
129	102.3	71.5	132.9
131	101.1	69.0	128.2
166	135.8	93.7	173.9

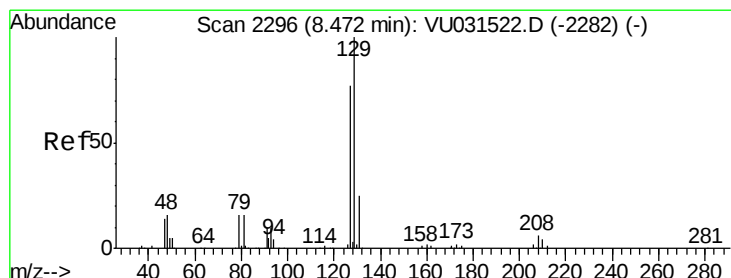
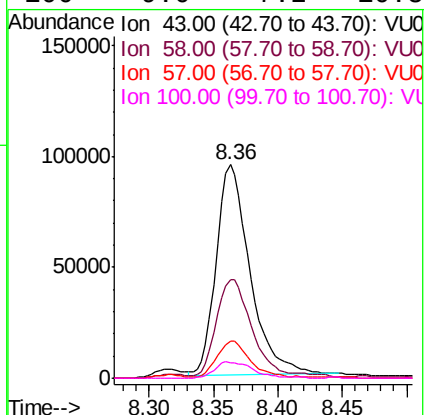
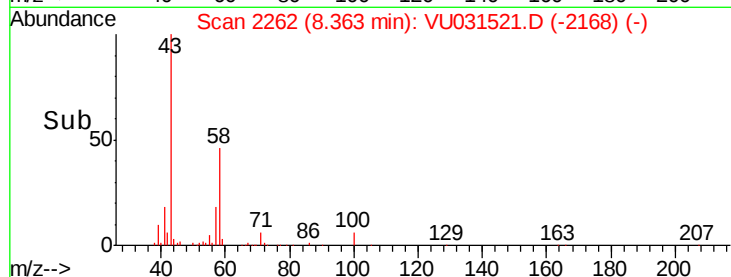
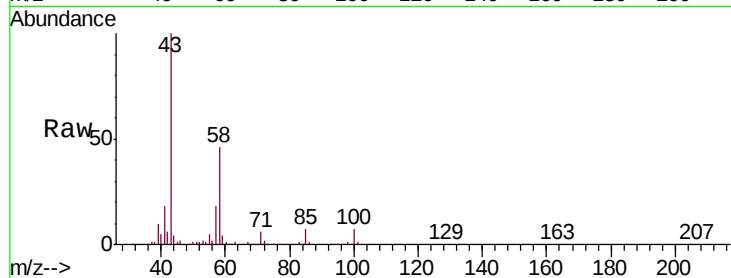




#48
2-Hexanone
Concen: 26.698 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

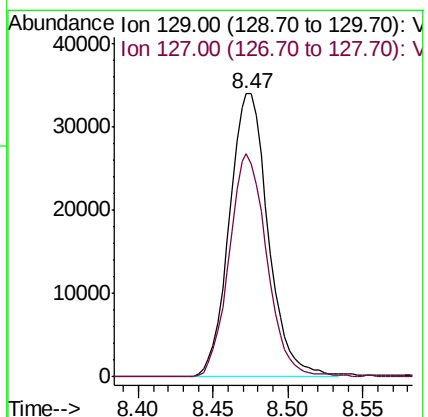
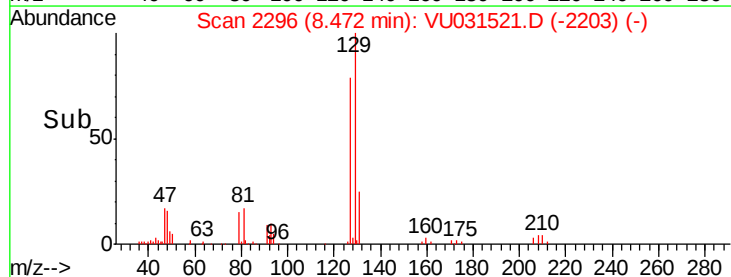
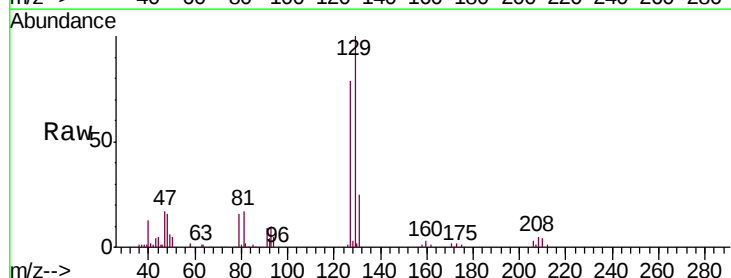
Instrument :
MSVOA_U
ClientSampleId :
VSTD01050

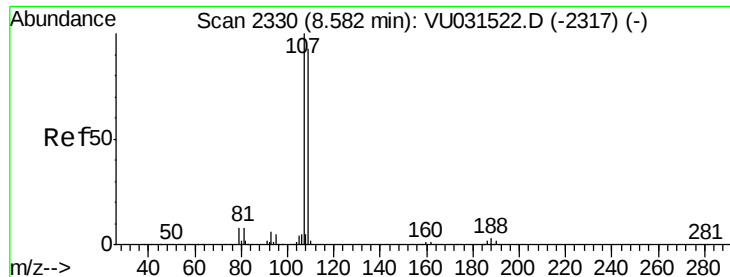
Tgt Ion: 43 Resp: 173292
Ion Ratio Lower Upper
43 100
58 47.0 42.1 63.1
57 17.5 14.6 22.0
100 9.0 7.2 10.8



#49
Dibromochloromethane
Concen: 12.067 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

Tgt Ion: 129 Resp: 61510
Ion Ratio Lower Upper
129 100
127 78.9 54.0 100.2

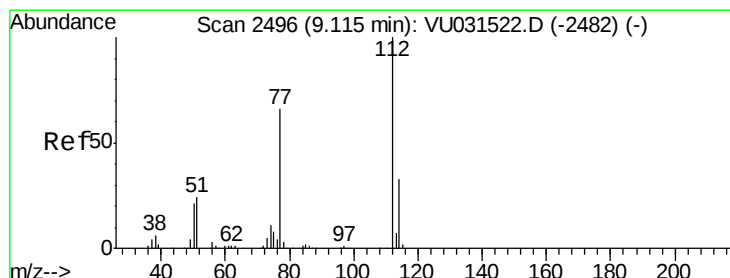
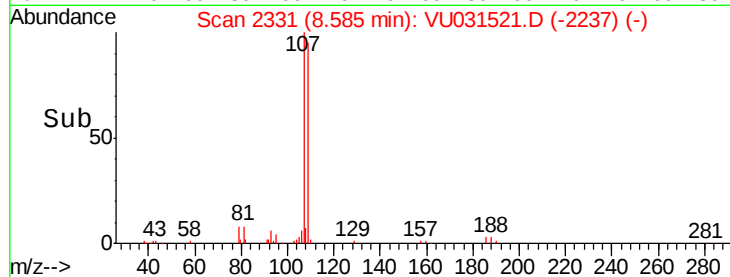
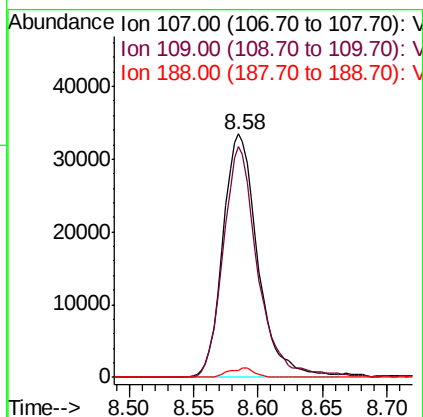
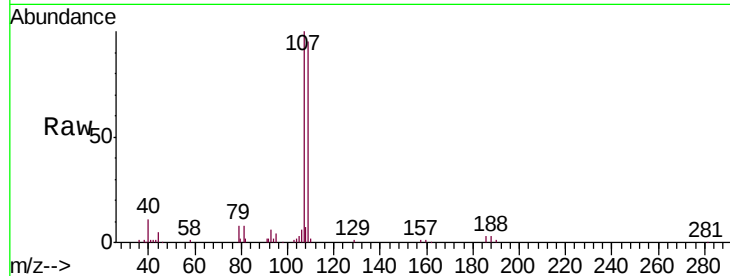




#50
 1,2-Dibromoethane
 Concen: 12.513 ug/L
 RT: 8.58 min Scan# 2331
 Delta R.T. 0.00 min
 Lab File: VU031521.D
 Acq: 26 Apr 2019 10:38

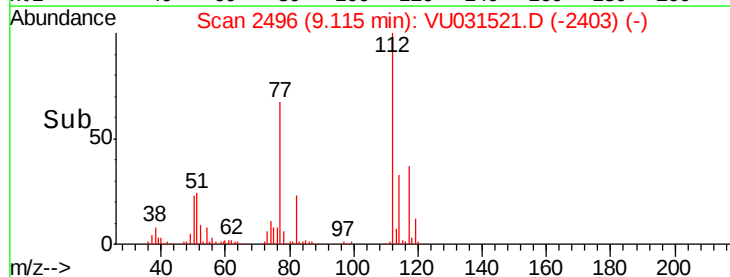
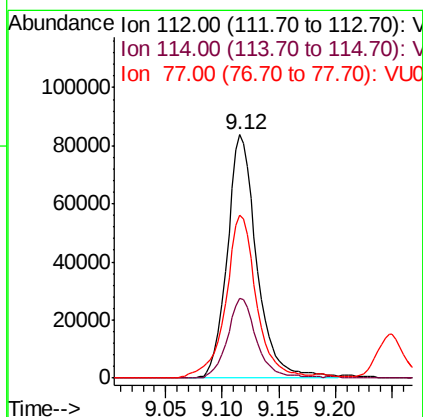
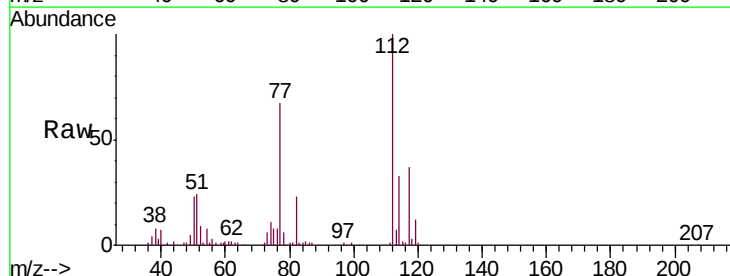
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01050

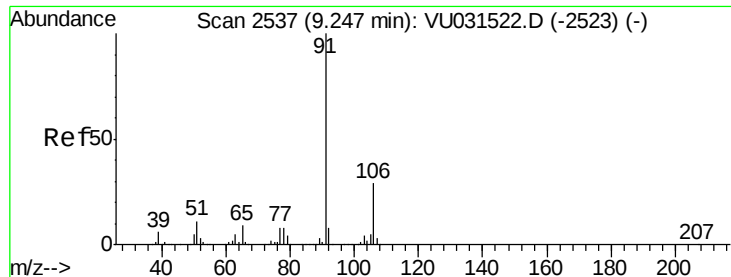
Tgt Ion:107 Resp: 63037
 Ion Ratio Lower Upper
 107 100
 109 95.0 64.9 120.5
 188 2.9 2.4 3.6



#51
 Chlorobenzene
 Concen: 12.132 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU031521.D
 Acq: 26 Apr 2019 10:38

Tgt Ion:112 Resp: 152139
 Ion Ratio Lower Upper
 112 100
 114 32.7 23.3 43.3
 77 67.1 53.0 79.4

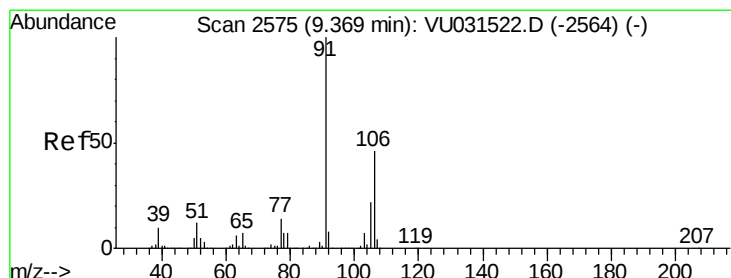
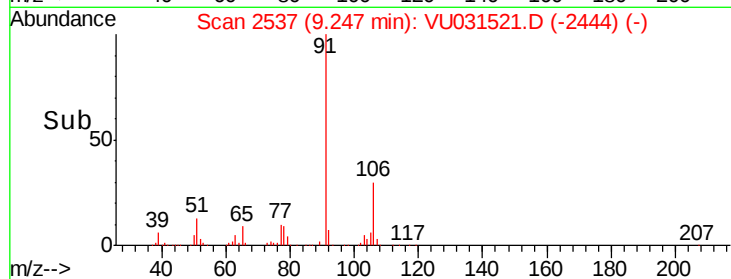
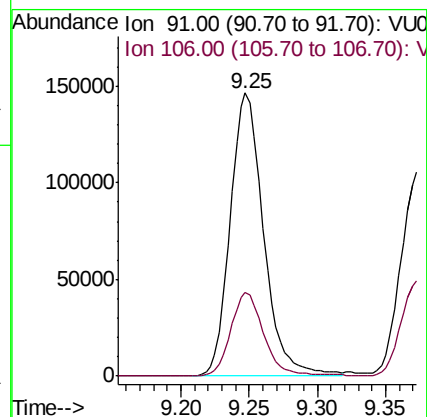
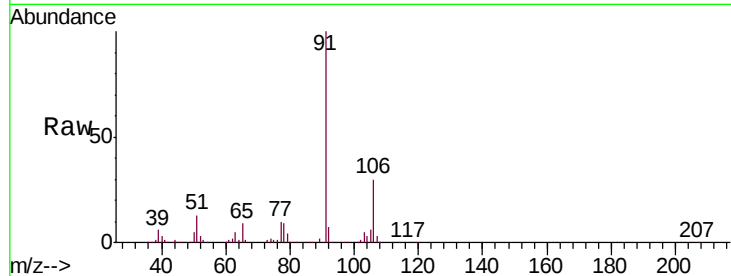




#52
Ethylbenzene
Concen: 11.443 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

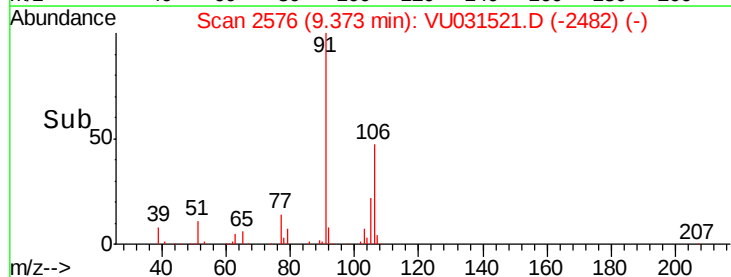
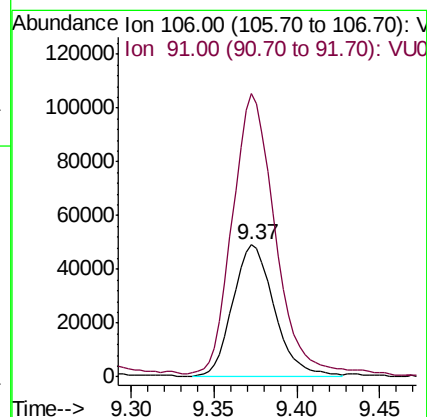
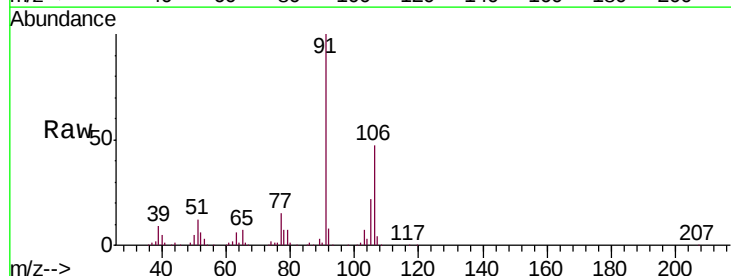
Instrument :
MSVOA_U
ClientSampleId :
VSTD01050

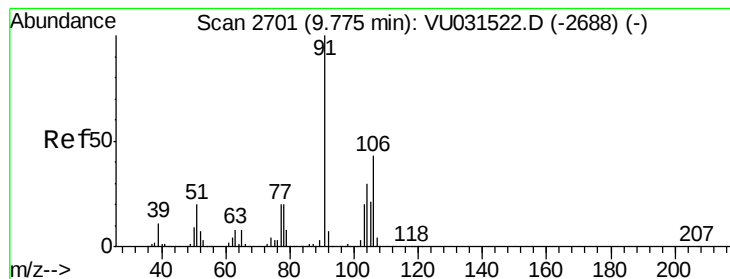
Tgt Ion: 91 Resp: 249791
Ion Ratio Lower Upper
91 100
106 29.7 20.4 37.8



#53
m,p-Xylene
Concen: 10.709 ug/L
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU031521.D
Acq: 26 Apr 2019 10:38

Tgt Ion: 106 Resp: 83872
Ion Ratio Lower Upper
106 100
91 214.7 152.2 282.6





#54

o-xylene

Concen: 10.599 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

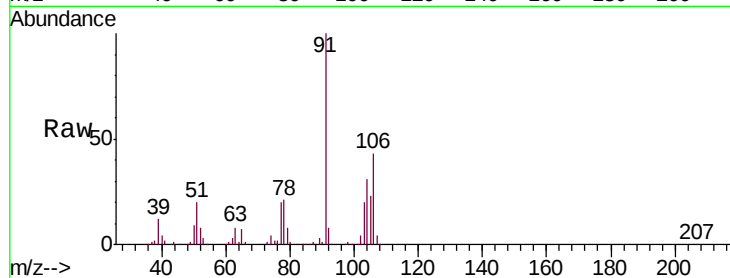
VSTD01050

Tgt Ion:106 Resp: 83768

Ion Ratio Lower Upper

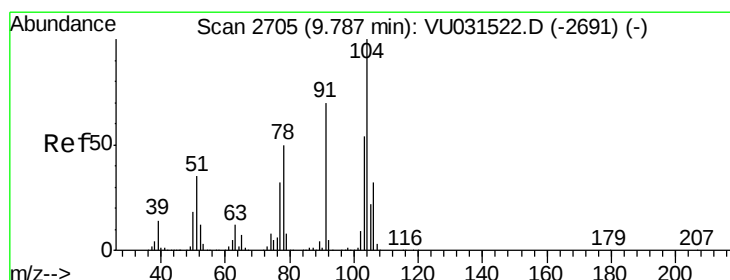
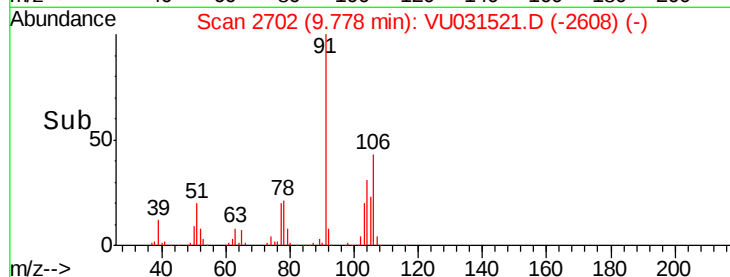
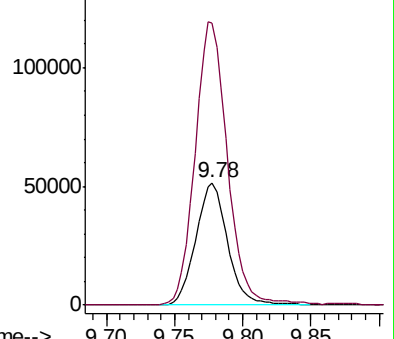
106 100

91 230.6 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 10.637 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU031521.D

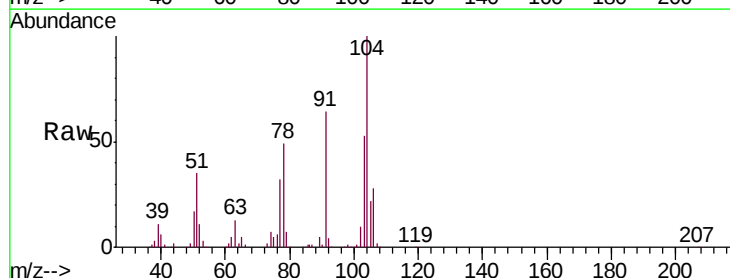
Acq: 26 Apr 2019 10:38

Tgt Ion:104 Resp: 141525

Ion Ratio Lower Upper

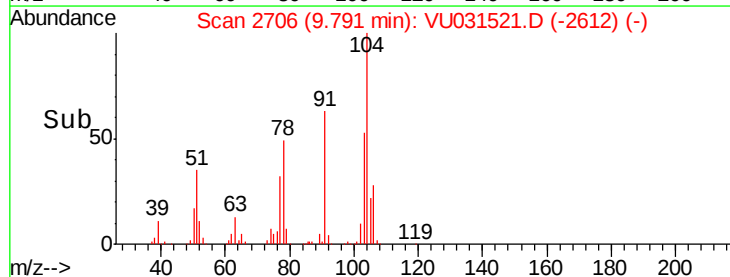
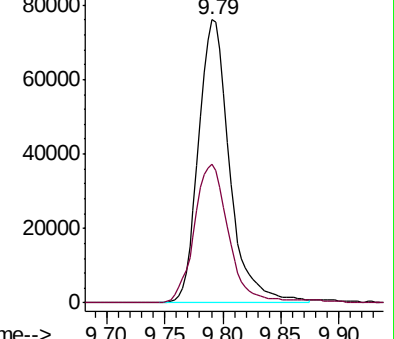
104 100

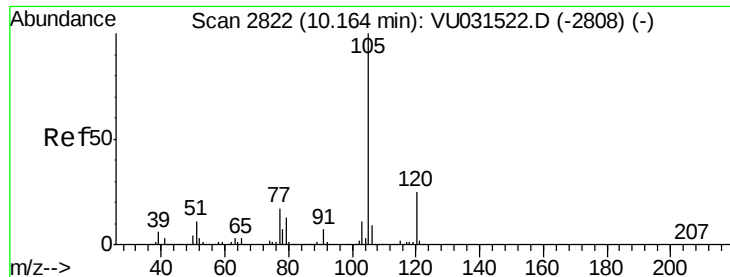
78 48.8 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 11.014 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD01050

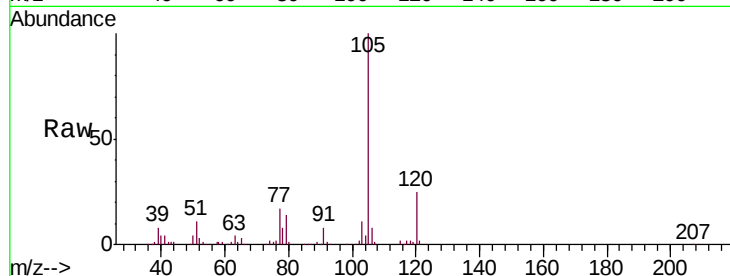
Tgt Ion: 105 Resp: 224189

Ion Ratio Lower Upper

105 100

120 24.7 20.1 30.1

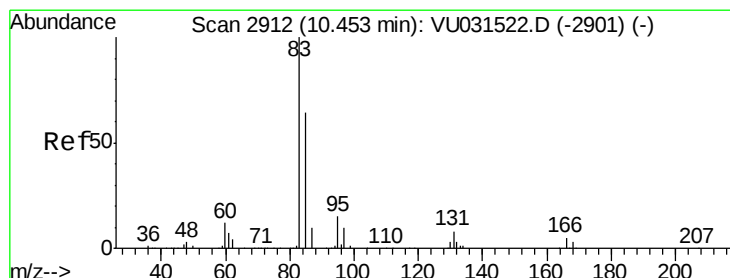
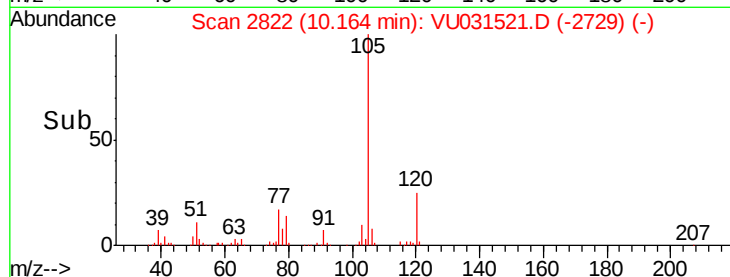
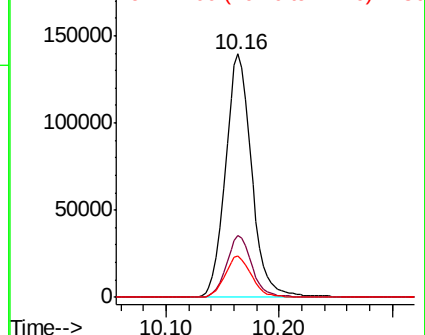
77 17.2 13.8 20.6



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: 13.006 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

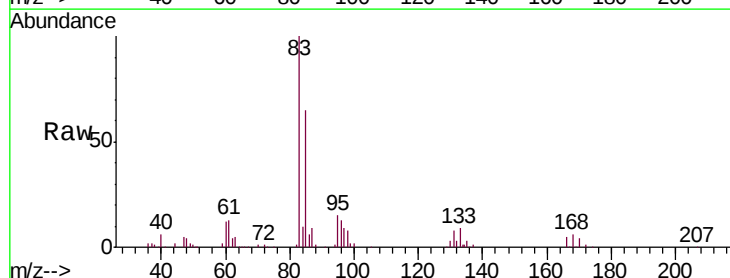
Tgt Ion: 83 Resp: 108680

Ion Ratio Lower Upper

83 100

85 64.7 46.0 85.4

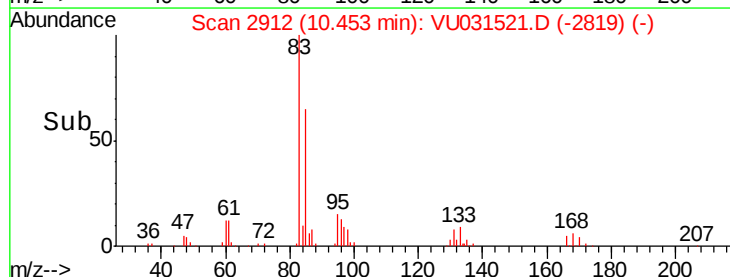
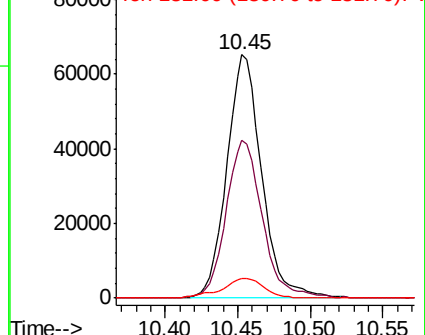
131 7.9 7.3 10.9

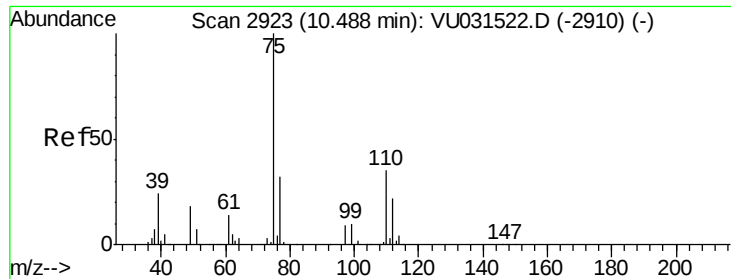


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 13.643 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

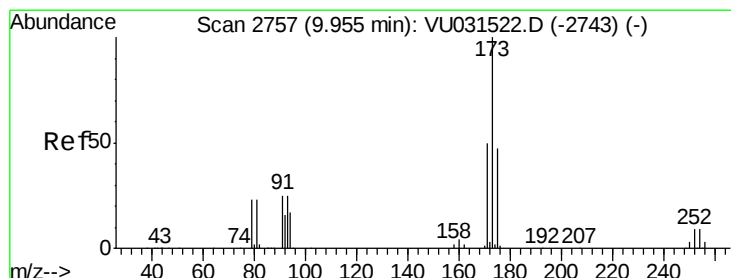
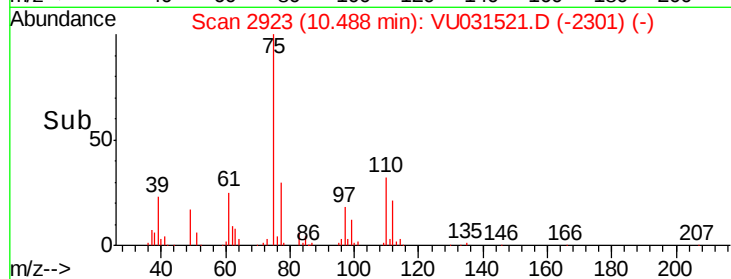
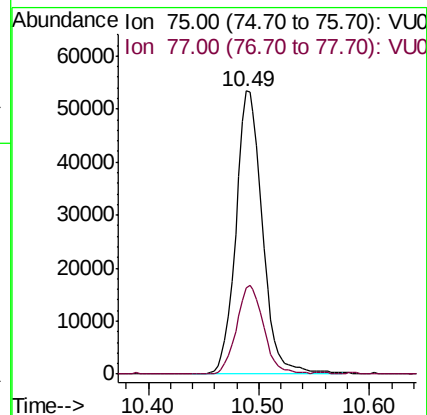
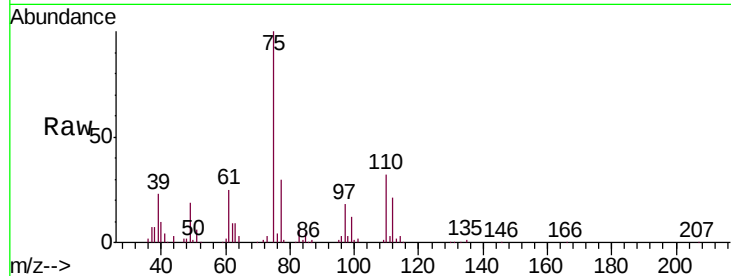
VSTD01050

Tgt Ion: 75 Resp: 89275

Ion Ratio Lower Upper

75 100

77 32.0 25.9 38.9



#61

Bromoform

Concen: 13.106 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

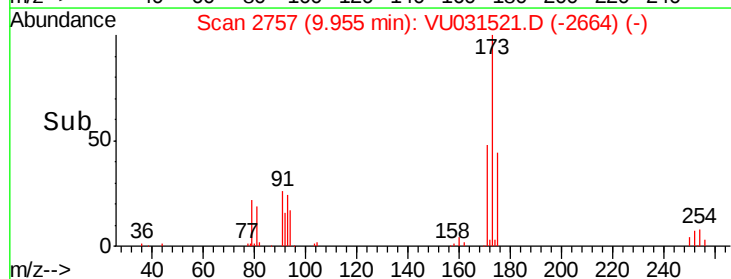
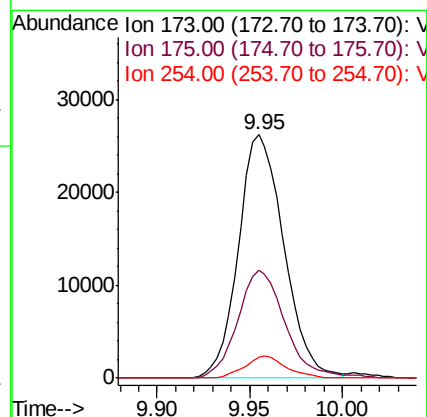
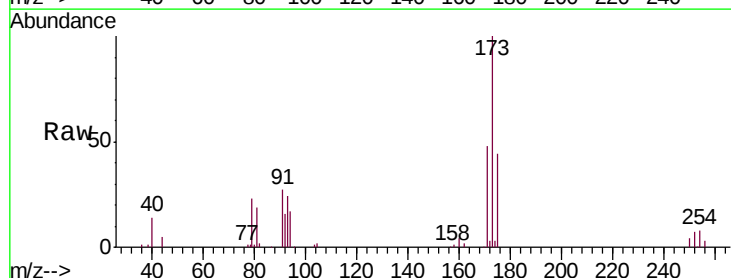
Tgt Ion: 173 Resp: 44736

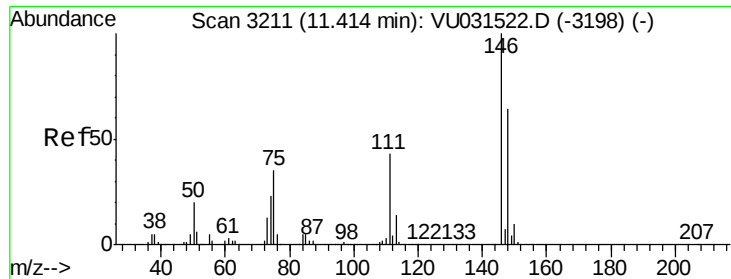
Ion Ratio Lower Upper

173 100

175 45.8 38.3 57.5

254 8.1 6.6 9.8





#62

1,3-Dichlorobenzene

Concen: 11.960 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD01050

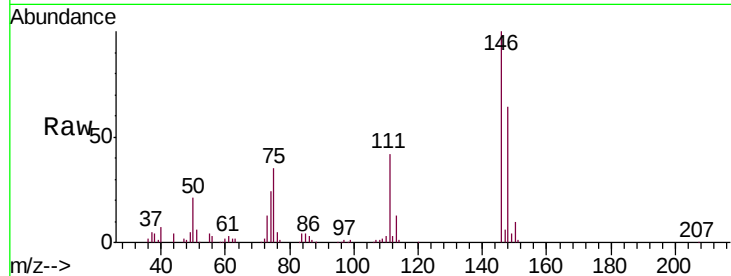
Tgt Ion:146 Resp: 96091

Ion Ratio Lower Upper

146 100

111 42.1 29.8 55.4

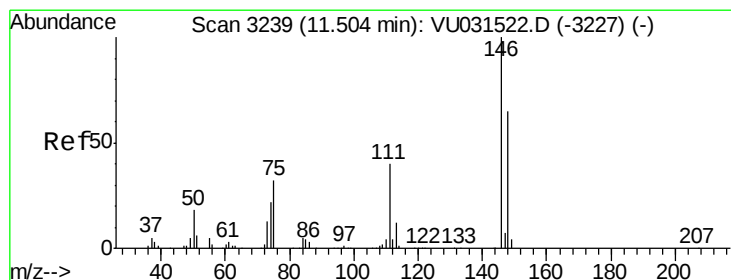
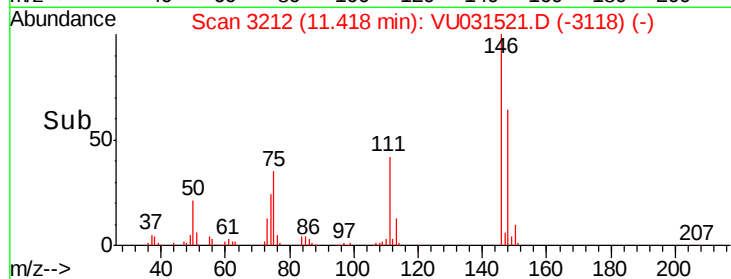
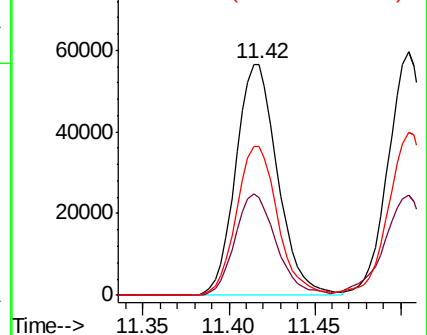
148 64.2 45.1 83.9



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



#63

1,4-Dichlorobenzene

Concen: 12.116 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

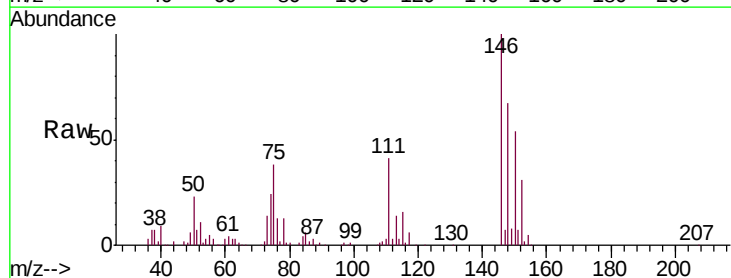
Tgt Ion:146 Resp: 97594

Ion Ratio Lower Upper

146 100

111 41.3 28.2 52.4

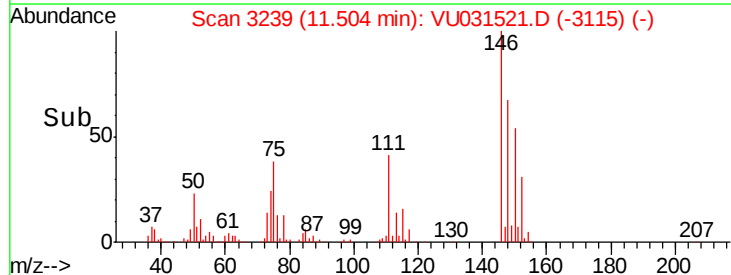
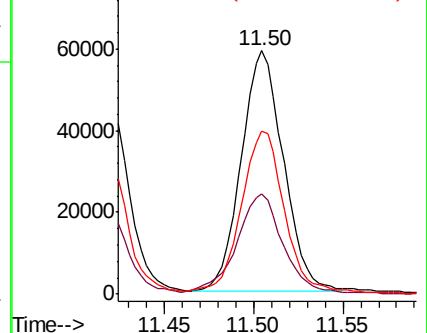
148 66.7 45.4 84.4

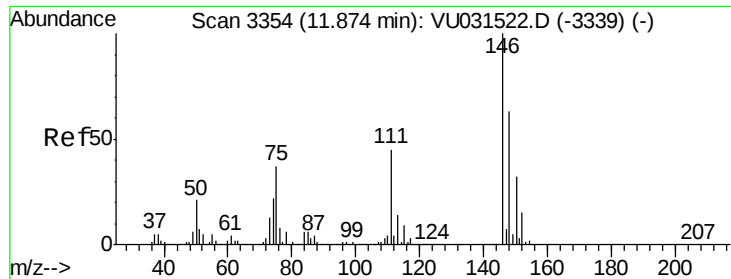


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 12.389 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD01050

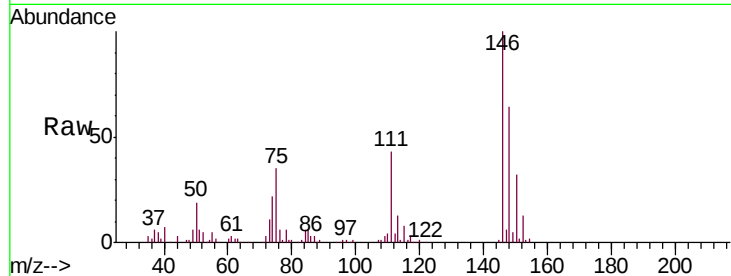
Tgt Ion:146 Resp: 102530

Ion Ratio Lower Upper

146 100

111 43.1 35.9 53.9

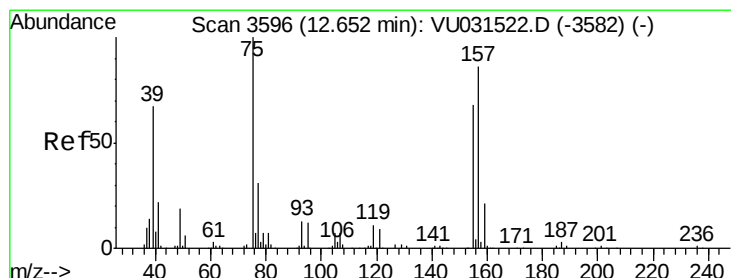
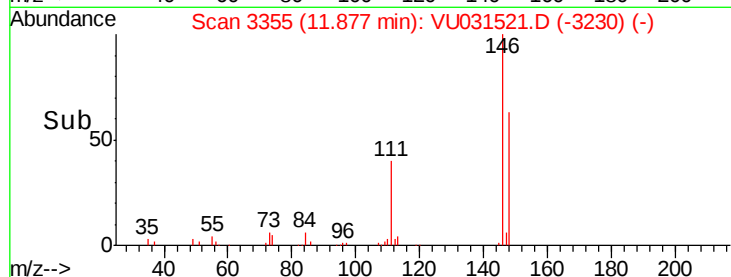
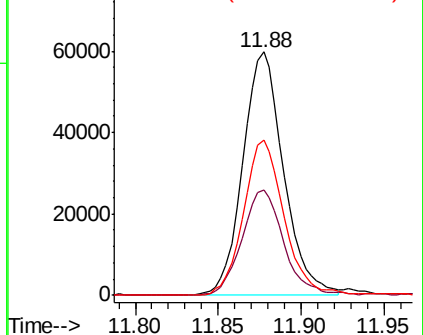
148 63.8 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 15.138 ug/L

RT: 12.66 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

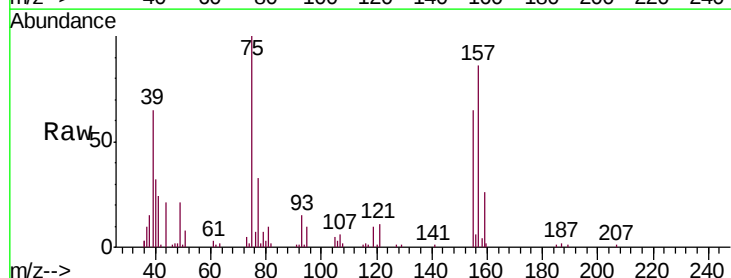
Tgt Ion: 75 Resp: 24401

Ion Ratio Lower Upper

75 100

155 64.9 54.0 81.0

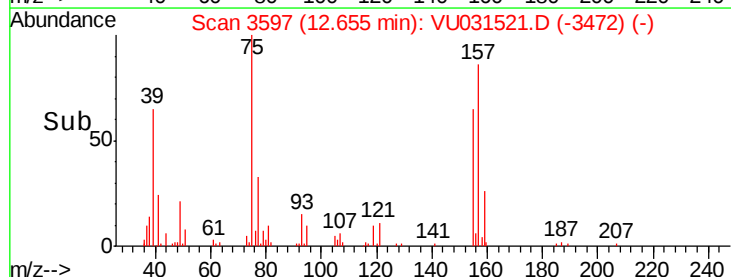
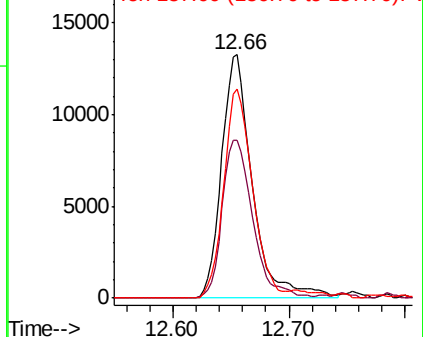
157 86.0 69.1 103.7

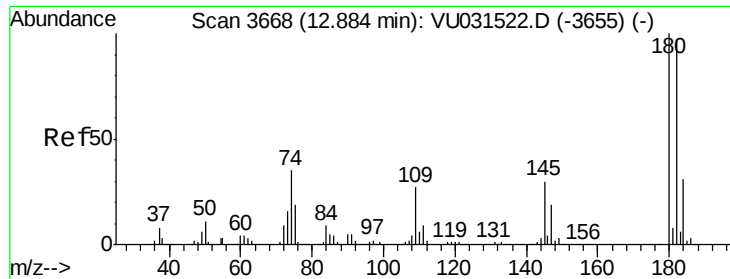


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

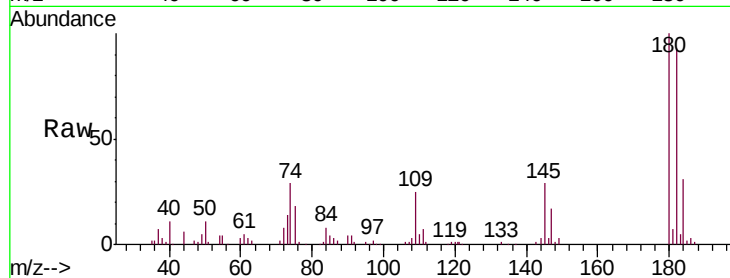




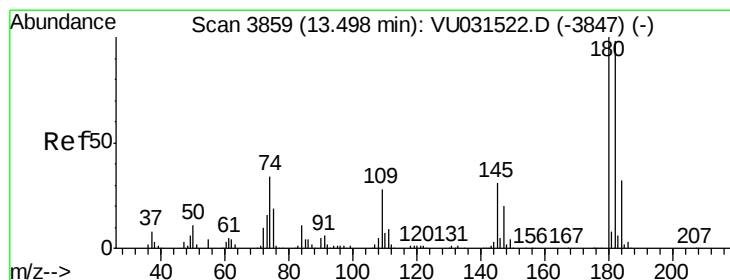
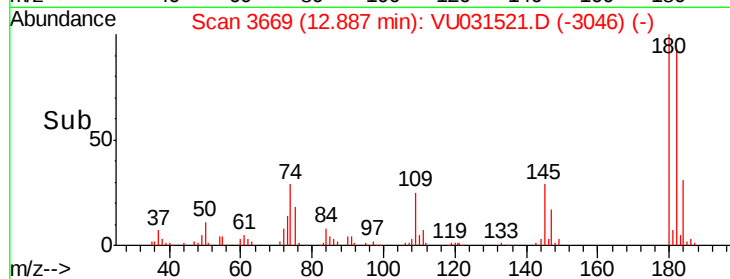
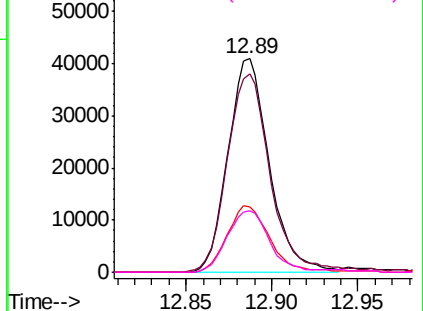
#67
 1,3,5-Trichlorobenzene
 Concen: 11.594 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU031521.D
 Acq: 26 Apr 2019 10:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01050

Tgt Ion:	180	Resp:	68245
Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.3	115.9
184	31.9	24.4	36.6
145	29.3	23.8	35.8

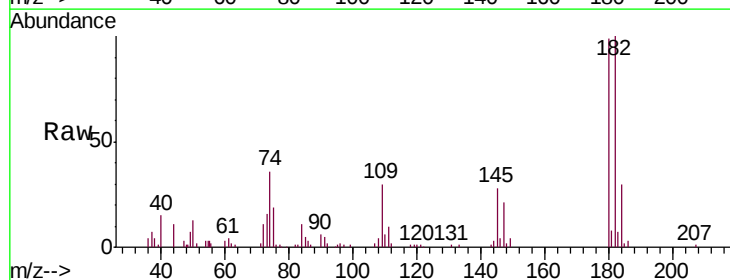


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

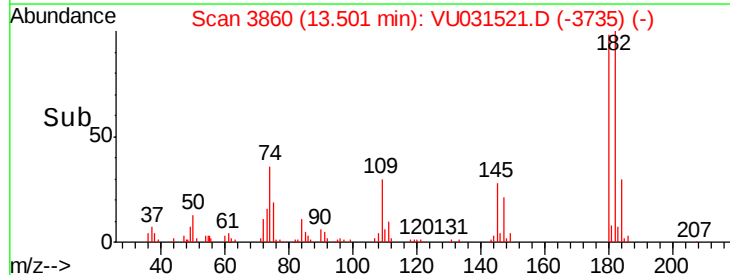
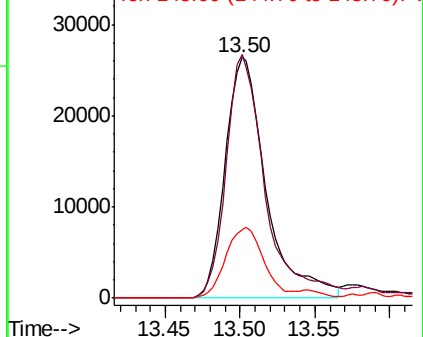


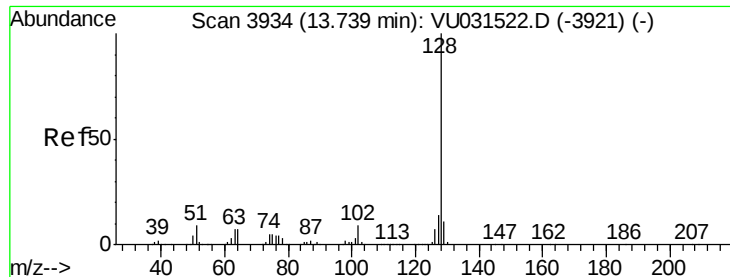
#68
 1,2,4-trichlorobenzene
 Concen: 10.631 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU031521.D
 Acq: 26 Apr 2019 10:38

Tgt Ion:	180	Resp:	50286
Ion	Ratio	Lower	Upper
180	100		
182	96.7	75.8	113.8
145	27.2	24.5	36.7



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: 9.295 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD01050

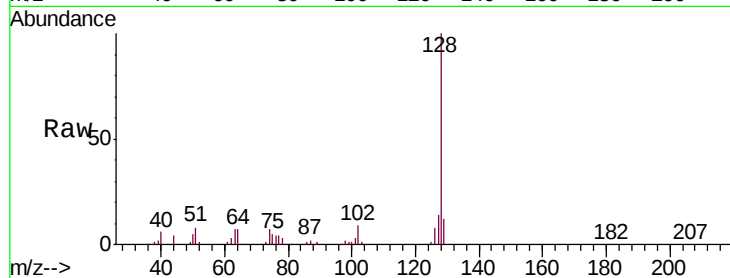
Tgt Ion:128 Resp: 152556

Ion Ratio Lower Upper

128 100

127 12.0 10.6 15.8

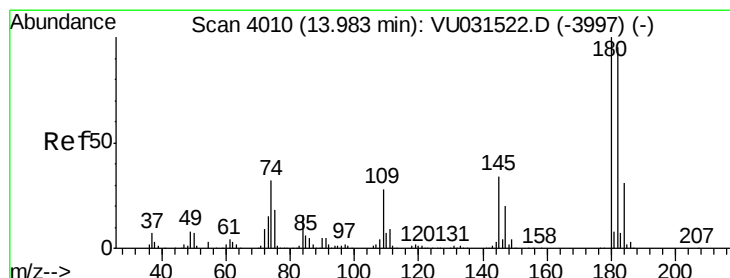
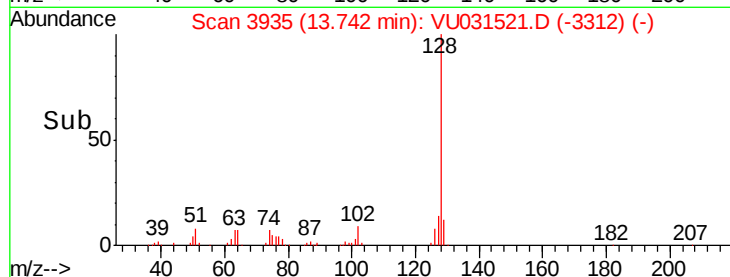
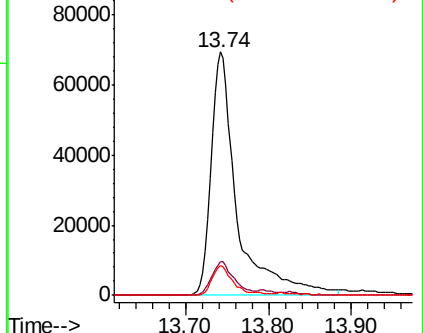
129 9.3 8.7 13.1



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: 11.645 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031521.D

Acq: 26 Apr 2019 10:38

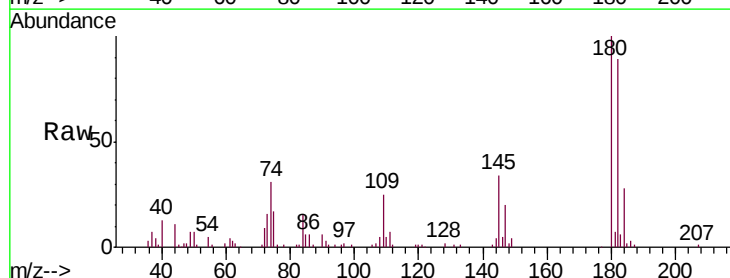
Tgt Ion:180 Resp: 59870

Ion Ratio Lower Upper

180 100

182 92.3 76.1 114.1

145 32.1 26.0 39.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

