

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081319\
 Data File : VU033784.D
 Acq On : 13 Aug 2019 16:23
 Operator : JC/SP
 Sample : MDL03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Quant Time: Aug 14 04:26:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 14 04:23:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	426086	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	415597	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	202347	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	185692	45.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.76%
7) Chloroethane-d5	1.67	69	155770	41.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.66%
11) 1,1-Dichloroethene-d2	2.26	63	246298	37.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.54%
21) 2-Butanone-d5	4.15	46	232997	103.49	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.49%
24) Chloroform-d	4.62	84	297473	47.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.14%
26) 1,2-Dichloroethane-d4	5.29	65	194711	49.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.54%
32) Benzene-d6	5.32	84	602386	50.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.18%
36) 1,2-Dichloropropane-d6	6.31	67	194792	50.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.26%
41) Toluene-d8	7.55	98	545383	49.12	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.24%
43) trans-1,3-Dichloropropene-	7.83	79	89796	48.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.80%
47) 2-Hexanone-d5	8.29	63	163385	106.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.12%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	269866	49.14	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.28%
66) 1,2-Dichlorobenzene-d4	11.84	152	213765	52.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	10011	2.357	ug/L	99
3) Chloromethane	1.32	50	11946	2.709	ug/L	93
5) Vinyl chloride	1.39	62	12178	2.550	ug/L #	63
6) Bromomethane	1.62	94	8153	2.326	ug/L	95
8) Chloroethane	1.69	64	7532	2.207	ug/L	87
9) Trichlorofluoromethane	1.87	101	15518	2.529	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	9383	3.124	ug/L	87
12) 1,1-Dichloroethene	2.27	96	9190	3.110	ug/L #	1
13) Acetone	2.31	43	11291	5.506	ug/L	99
14) Carbon disulfide	2.46	76	24328	2.601	ug/L	95
15) Methyl Acetate	2.61	43	8747	2.552	ug/L	100
16) Methylene chloride	2.68	84	9315	2.761	ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	8105	2.636	ug/L	95
18) Methyl tert-butyl Ether	2.98	73	22060	2.413	ug/L	97
19) 1,1-Dichloroethane	3.42	63	15306	2.591	ug/L	96
20) cis-1,2-Dichloroethene	4.21	96	8742	2.589	ug/L	98
22) 2-Butanone	4.25	43	11138	4.471	ug/L	92

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

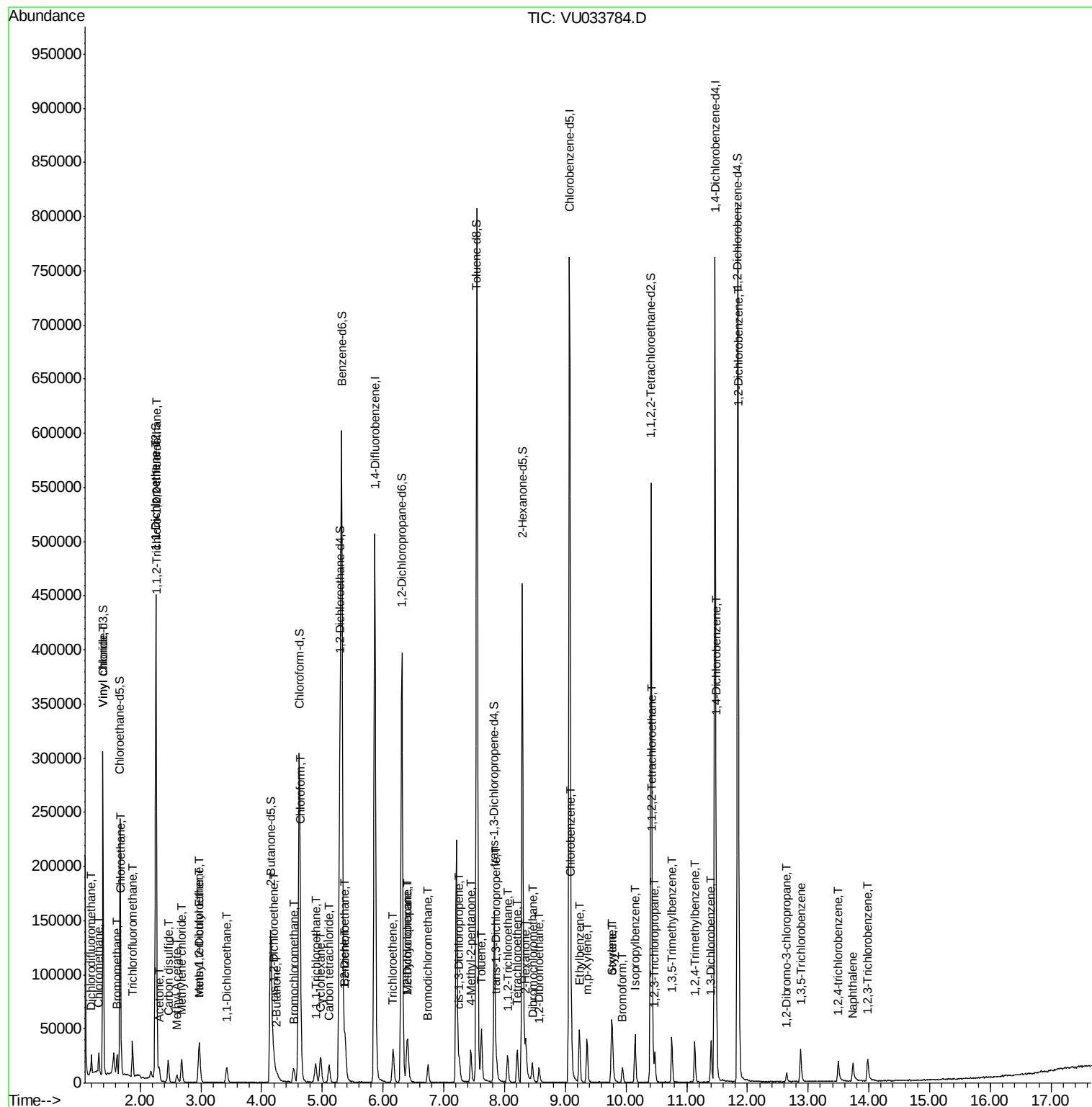
23) Bromochloromethane	4.53	128	4364	2.494	ug/L	94
25) Chloroform	4.65	83	18553	3.021	ug/L	93
27) 1,2-Dichloroethane	5.38	62	13716	2.875	ug/L	99
29) Cyclohexane	4.97	56	10998	2.408	ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	13496	2.648	ug/L	98
31) Carbon tetrachloride	5.11	117	11579	2.558	ug/L	98
33) Benzene	5.37	78	33109	2.604	ug/L	100
34) Trichloroethene	6.17	95	8542	2.536	ug/L	93
35) Methylcyclohexane	6.40	83	10899	2.220	ug/L	94
37) 1,2-Dichloropropane	6.41	63	9395	2.712	ug/L #	98
38) Bromodichloromethane	6.74	83	11404	2.551	ug/L	95
39) cis-1,3-Dichloropropene	7.25	75	13260	2.593	ug/L	95
40) 4-Methyl-2-pentanone	7.44	43	20562	4.770	ug/L	98
42) Toluene	7.62	91	35207	2.622	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	11417	2.451	ug/L	96
45) 1,1,2-Trichloroethane	8.05	97	8205	2.509	ug/L	97
46) Tetrachloroethene	8.21	164	7126	2.697	ug/L	94
48) 2-Hexanone	8.35	43	19832	6.010	ug/L	90
49) Dibromochloromethane	8.46	129	9003	2.466	ug/L	89
50) 1,2-Dibromoethane	8.57	107	9335	2.721	ug/L #	97
51) Chlorobenzene	9.10	112	22662	2.593	ug/L	95
52) Ethylbenzene	9.23	91	34292	2.427	ug/L	98
53) m,p-Xylene	9.36	106	12300	2.329	ug/L	97
54) o-xylene	9.76	106	11207	2.157	ug/L	88
55) Styrene	9.78	104	18516	2.099	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.44	83	15663	2.864	ug/L #	94
59) Bromoform	9.94	173	7037	2.722	ug/L #	94
60) 1,2,3-Trichloropropane	10.48	75	11546	2.836	ug/L	98
61) Isopropylbenzene	10.15	105	28088	2.242	ug/L	96
62) 1,3,5-Trimethylbenzene	10.76	105	22577	2.232	ug/L	96
63) 1,2,4-Trimethylbenzene	11.13	105	21366	2.129	ug/L	98
64) 1,3-Dichlorobenzene	11.40	146	16572	2.637	ug/L	93
65) 1,4-Dichlorobenzene	11.49	146	17559	2.726	ug/L	95
67) 1,2-Dichlorobenzene	11.86	146	18027	2.823	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.65	75	2652	2.336	ug/L	92
69) 1,3,5-Trichlorobenzene	12.87	180	11280	2.376	ug/L	96
70) 1,2,4-trichlorobenzene	13.50	180	6866	1.744	ug/L #	81
71) Naphthalene	13.74	128	19756	1.686	ug/L #	95
72) 1,2,3-Trichlorobenzene	13.98	180	9231	2.237	ug/L	92

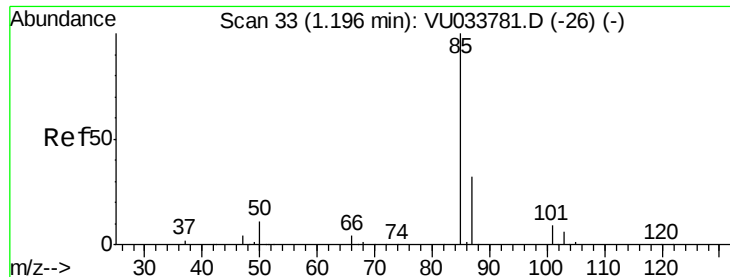
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.357 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

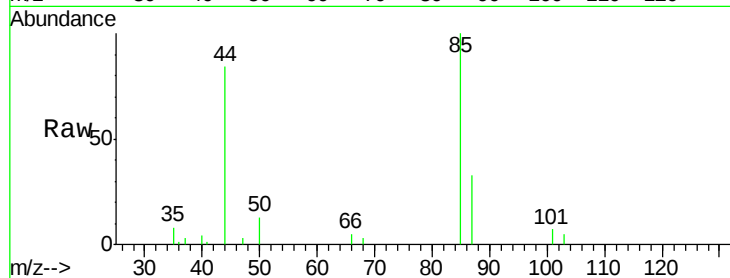
MDL03

Tot Ion: 85 Resp: 10011

Ion Ratio Lower Upper

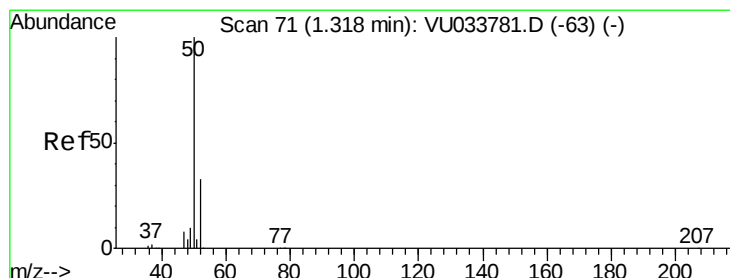
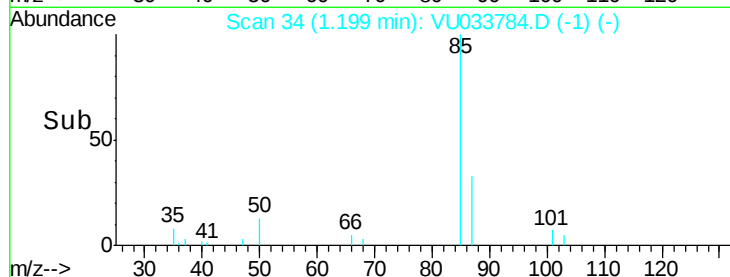
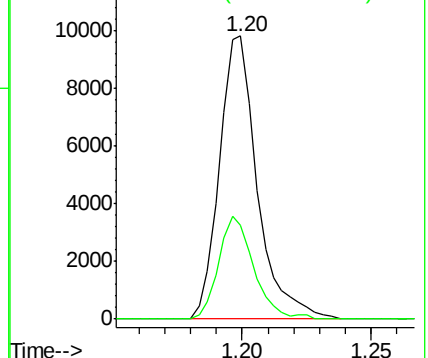
85 100

87 33.3 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 2.709 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033784.D

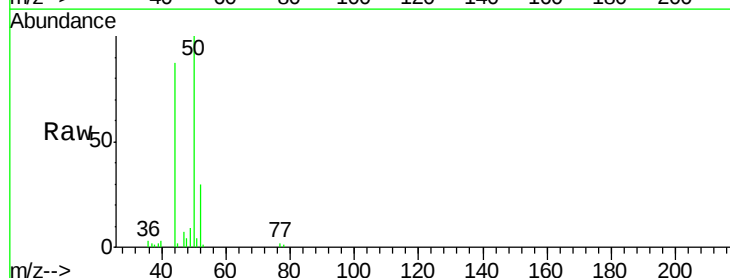
Acq: 13 Aug 2019 16:23

Tgt Ion: 50 Resp: 11946

Ion Ratio Lower Upper

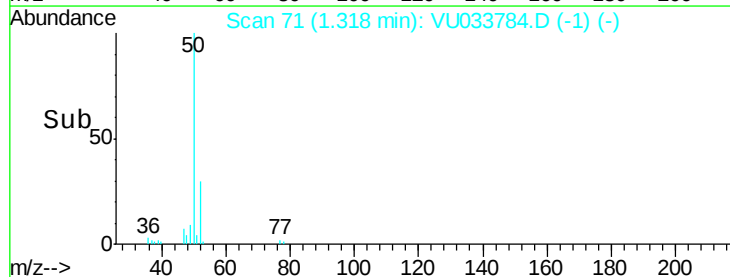
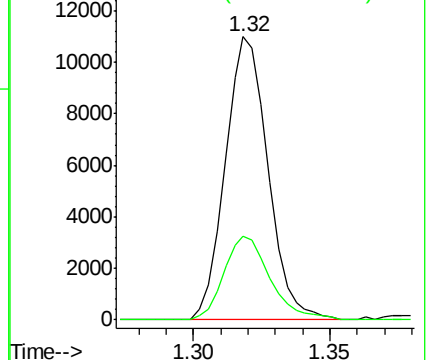
50 100

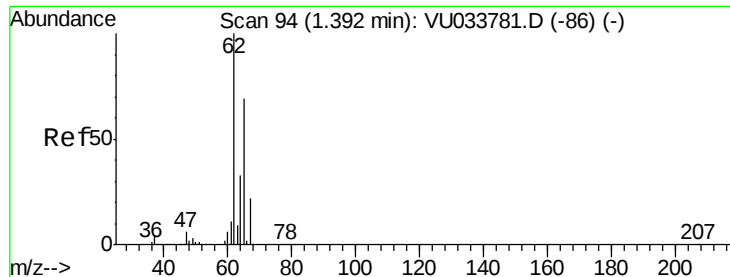
52 29.7 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 2.550 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampled :

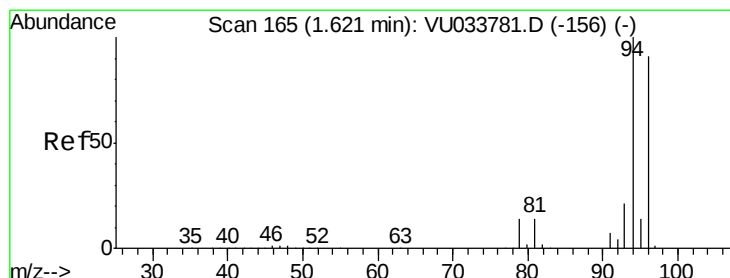
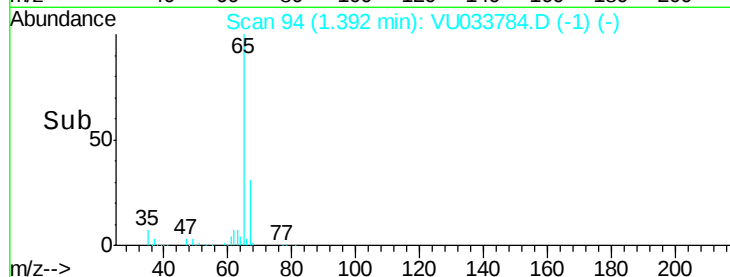
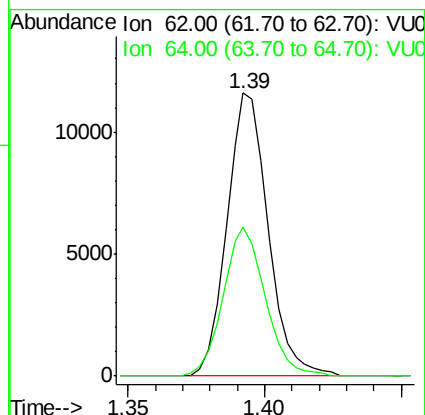
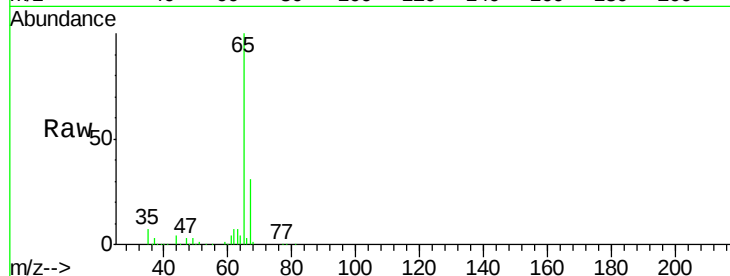
MDL03

Tot Ion: 62 Resp: 12178

Ion Ratio Lower Upper

62 100

64 52.6 22.3 41.5#



#6

Bromomethane

Concen: 2.326 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033784.D

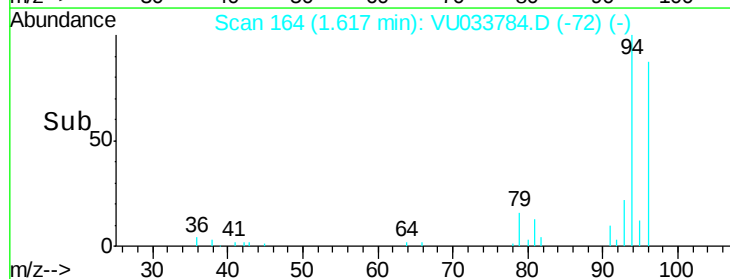
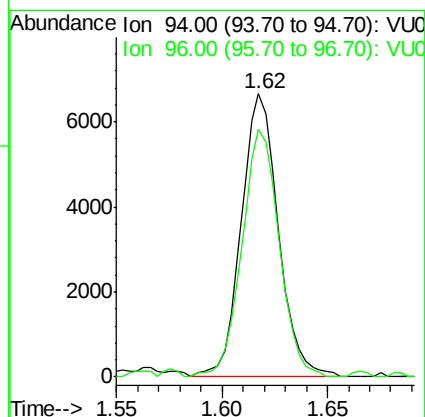
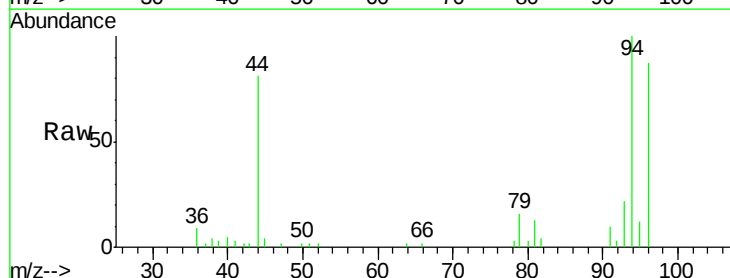
Acq: 13 Aug 2019 16:23

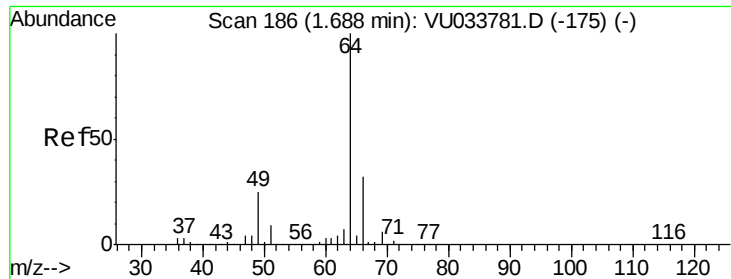
Tgt Ion: 94 Resp: 8153

Ion Ratio Lower Upper

94 100

96 87.3 64.5 119.7





#8

Chloroethane

Concen: 2.207 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

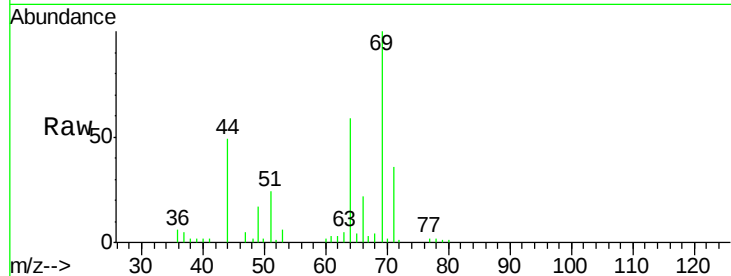
MDL03

Tot Ion: 64 Resp: 7532

Ion Ratio Lower Upper

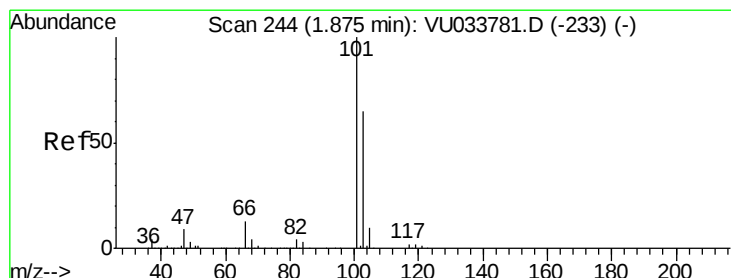
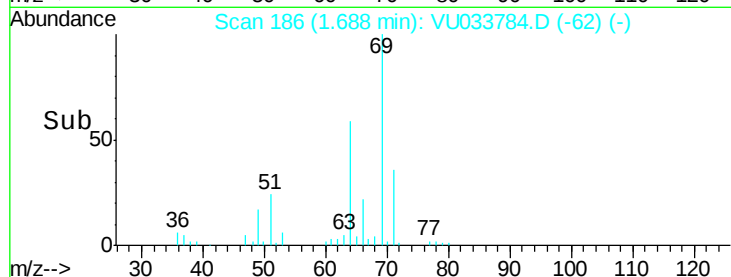
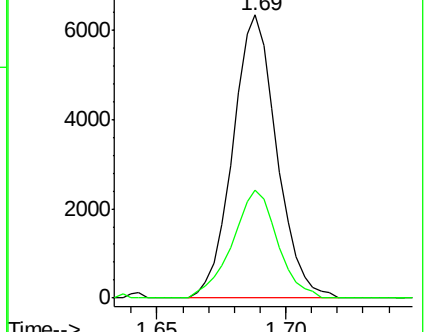
64 100

66 38.2 21.9 40.7



Abundance Ion 64.00 (63.70 to 64.70): VU033784.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033784.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 2.529 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033784.D

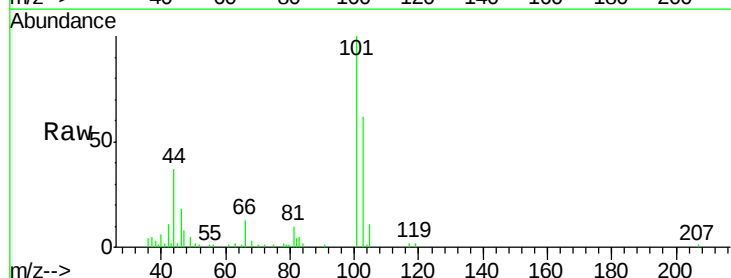
Acq: 13 Aug 2019 16:23

Tgt Ion:101 Resp: 15518

Ion Ratio Lower Upper

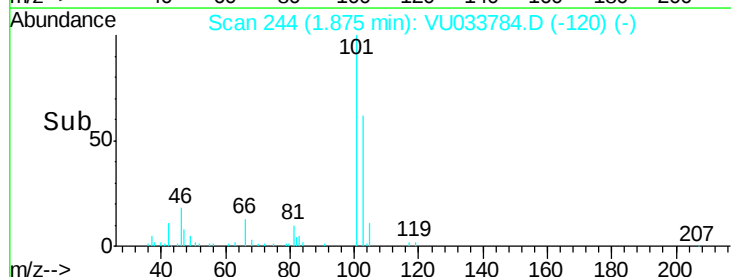
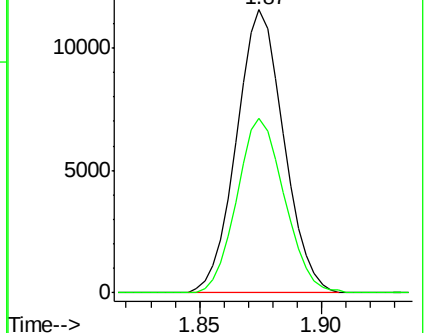
101 100

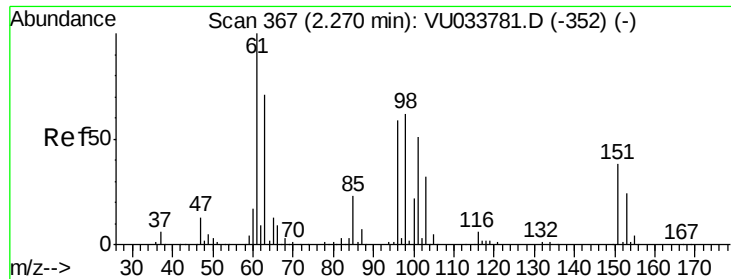
103 61.9 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU033784.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033784.D (-233) (-)





#10

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

Concen: 3.124 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

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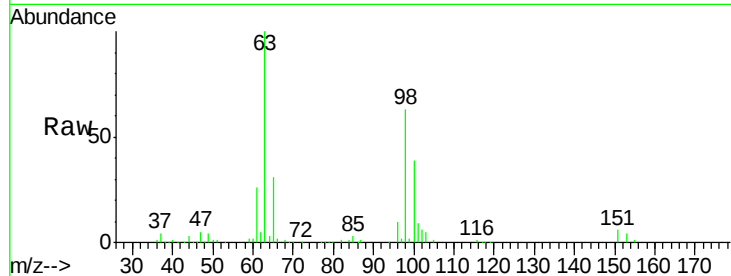
Tot Ion:101 Resp: 9383

Ion Ratio Lower Upper

101 100

85 36.3 35.2 52.8

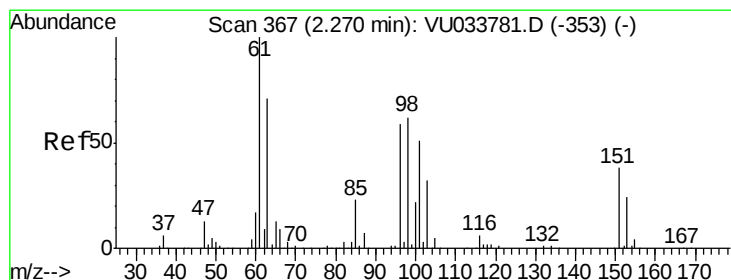
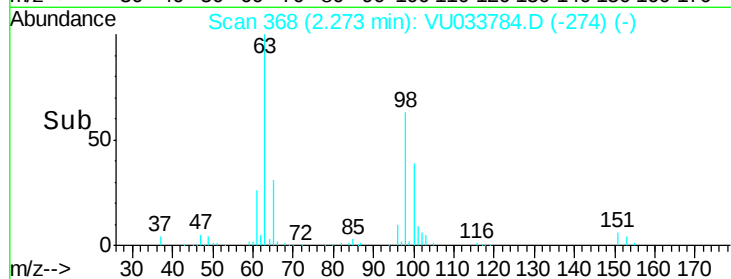
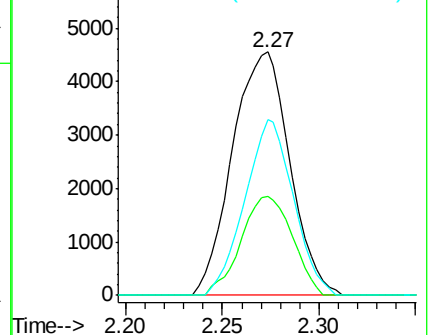
151 61.1 58.5 87.7



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: 3.110 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

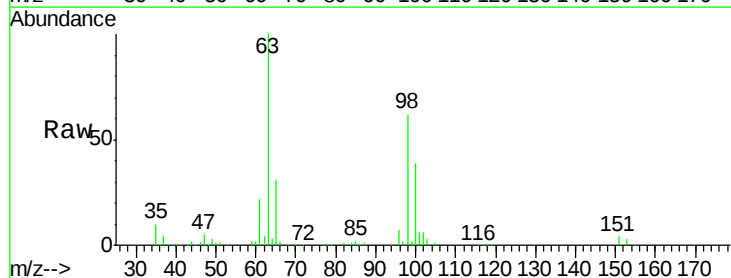
Tgt Ion: 96 Resp: 9190

Ion Ratio Lower Upper

96 100

61 307.8 121.5 225.7#

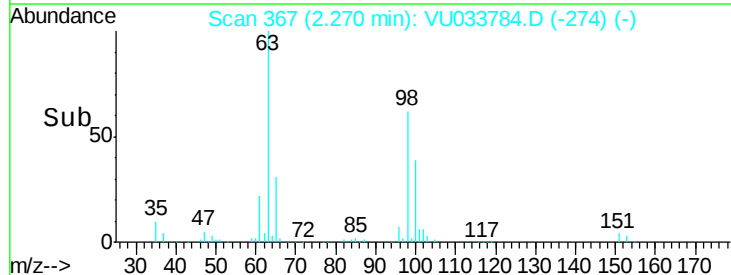
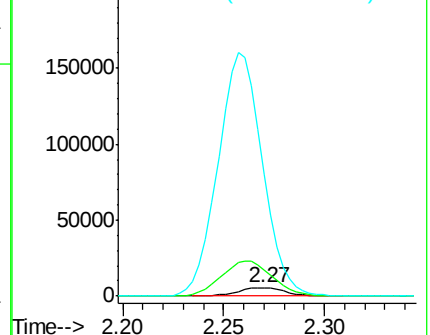
63 1415.8 92.9 172.5#

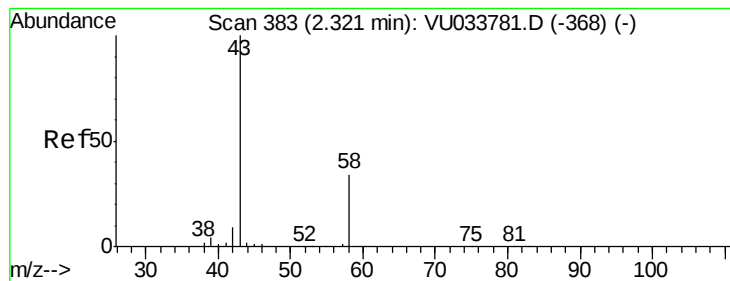


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.506 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.01 min

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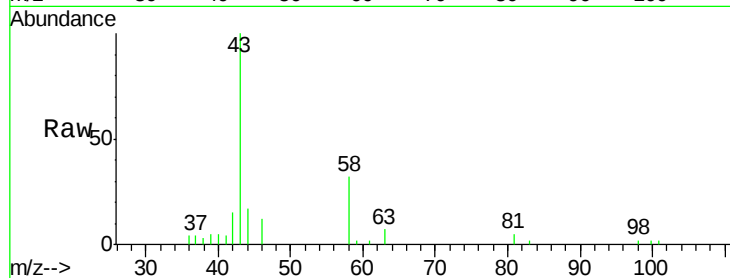
MDL03

Tot Ion: 43 Resp: 11291

Ion Ratio Lower Upper

43 100

58 33.4 0.0 65.8



Abundance Ion 43.00 (42.70 to 43.70): VU033784.D (-368) (-)

Ion 58.00 (57.70 to 58.70): VU033784.D (-368) (-)

2.31

6000

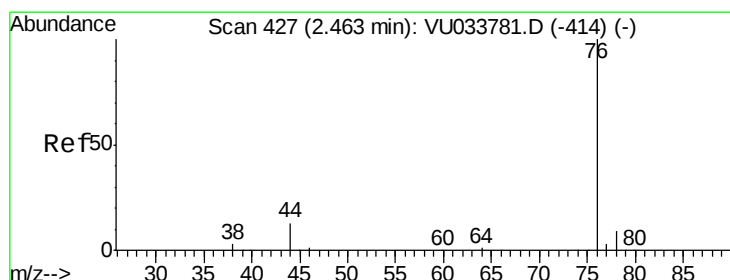
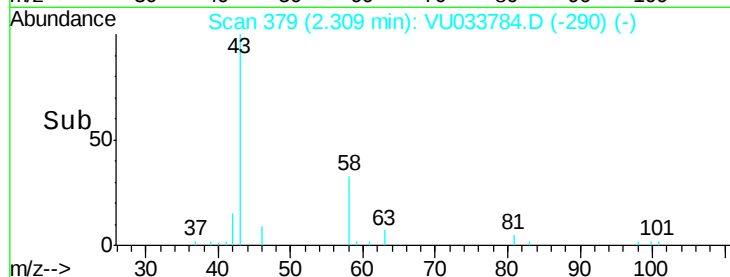
4000

2000

0

Time-->

2.25 2.30 2.35



#14

Carbon disulfide

Concen: 2.601 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033784.D

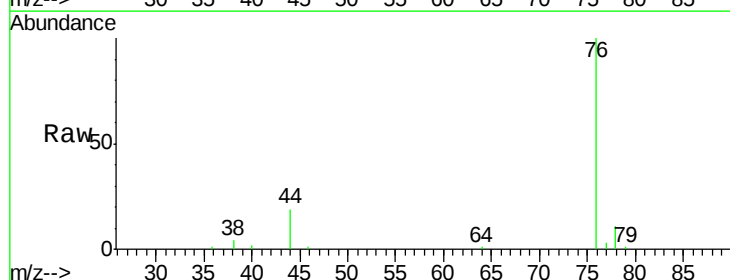
Acq: 13 Aug 2019 16:23

Tgt Ion: 76 Resp: 24328

Ion Ratio Lower Upper

76 100

78 10.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU033784.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033784.D (-414) (-)

2.46

15000

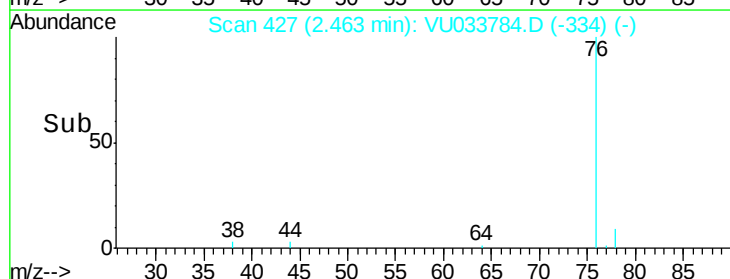
10000

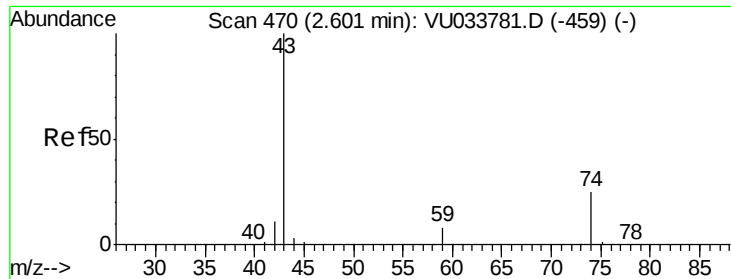
5000

0

Time-->

2.40 2.45 2.50 2.55

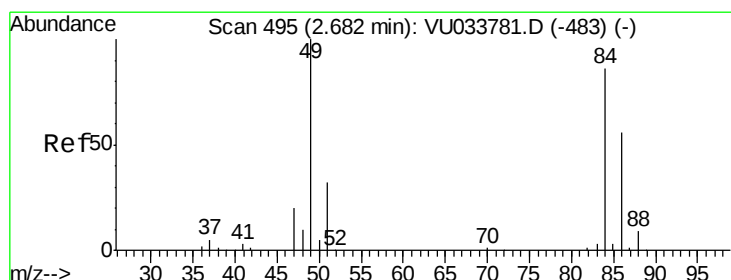
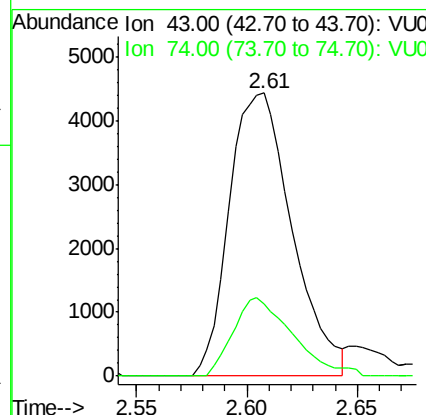
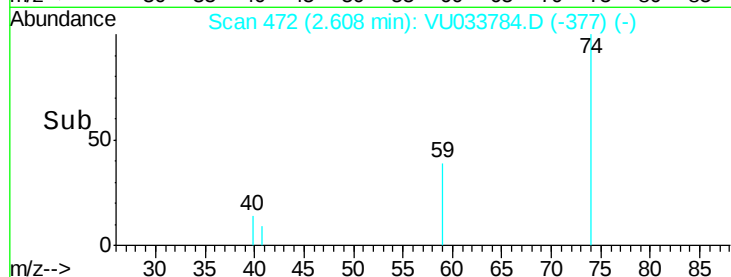
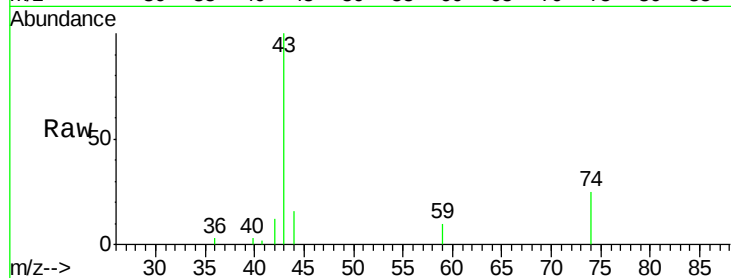




#15
Methyl Acetate
Concen: 2.552 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU033784.D
Acq: 13 Aug 2019 16:23

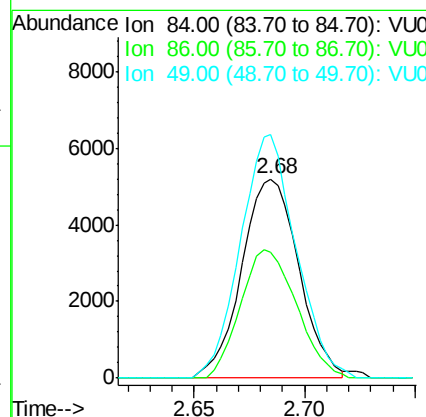
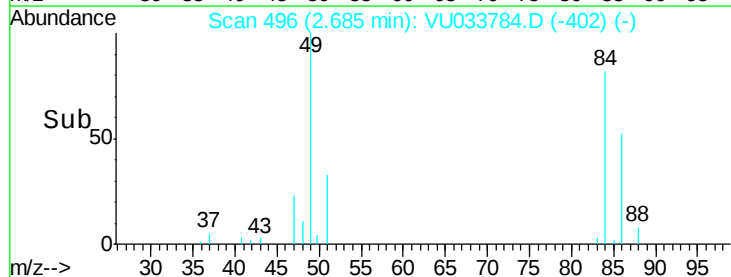
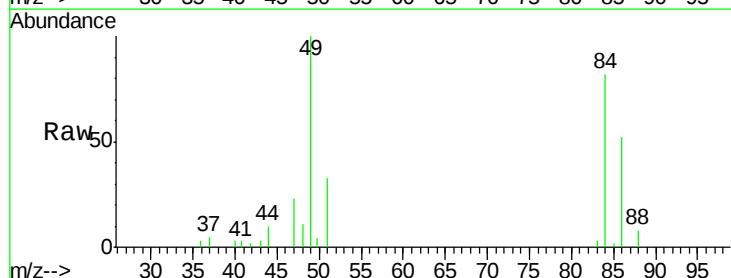
Instrument :
MSVOA_U
ClientSampleId :
MDL03

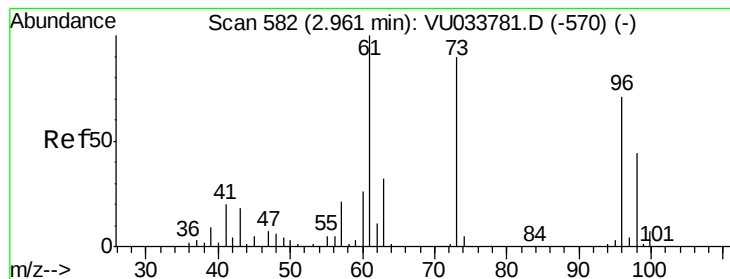
Tot Ion: 43 Resp: 8747
Ion Ratio Lower Upper
43 100
74 25.4 20.3 30.5



#16
Methylene chloride
Concen: 2.761 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033784.D
Acq: 13 Aug 2019 16:23

Tgt Ion: 84 Resp: 9315
Ion Ratio Lower Upper
84 100
86 63.2 45.4 84.4
49 122.2 84.9 157.7





#17

trans-1,2-Dichloroethene

Concen: 2.636 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

MDL03

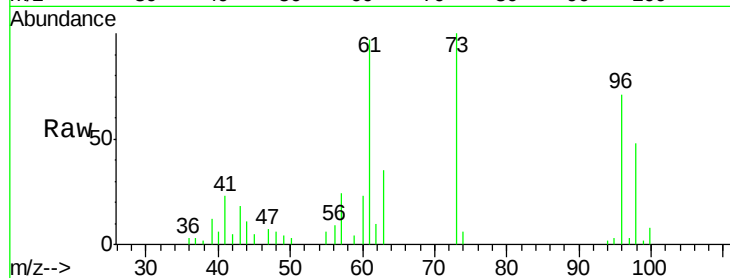
Tot Ion: 96 Resp: 8105

Ion Ratio Lower Upper

96 100

61 136.1 98.8 183.6

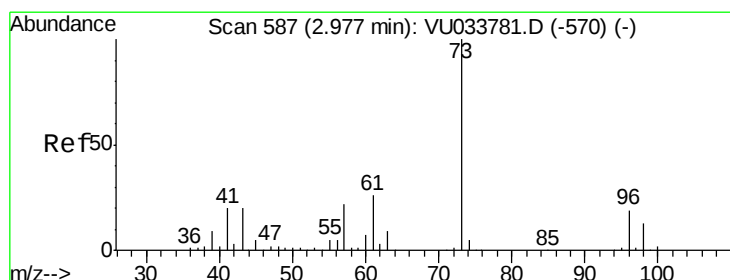
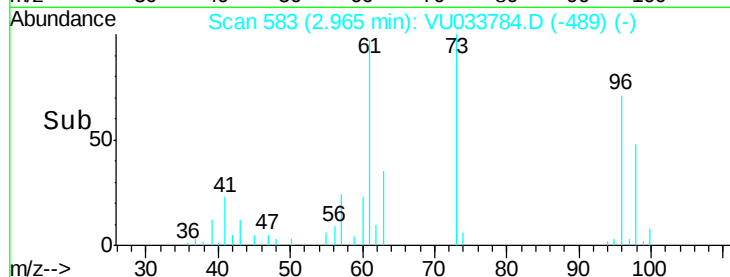
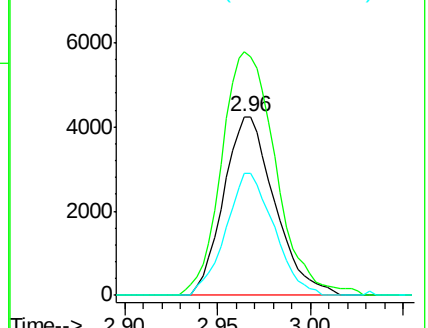
98 68.0 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU033784.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033784.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033784.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 2.413 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

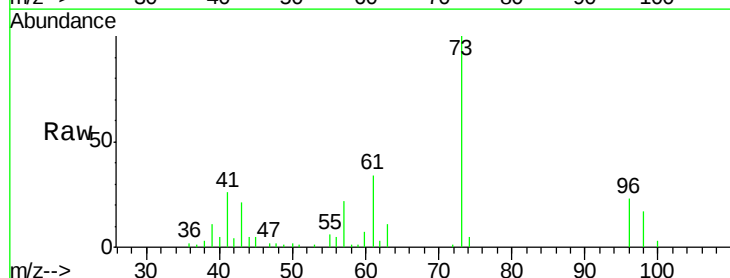
Tgt Ion: 73 Resp: 22060

Ion Ratio Lower Upper

73 100

43 21.5 15.4 23.2

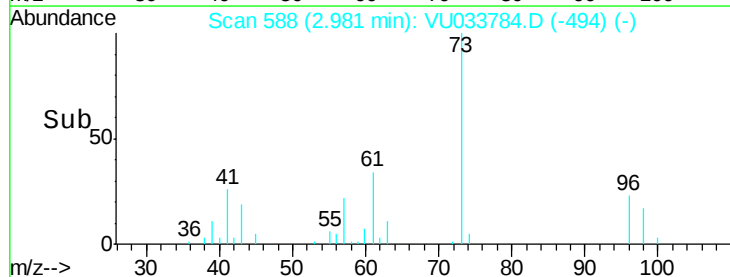
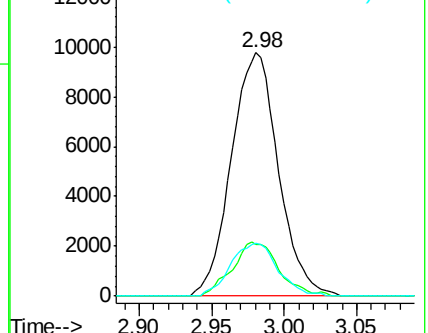
57 21.8 17.9 26.9

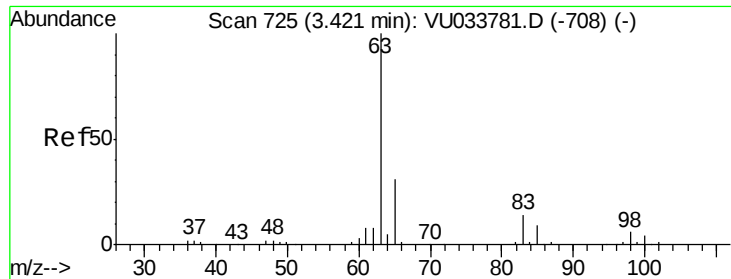


Abundance Ion 73.00 (72.70 to 73.70): VU033784.D (-570) (-)

Ion 43.00 (42.70 to 43.70): VU033784.D (-570) (-)

Ion 57.00 (56.70 to 57.70): VU033784.D (-570) (-)

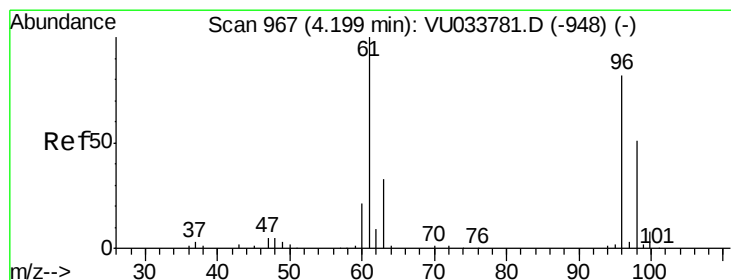
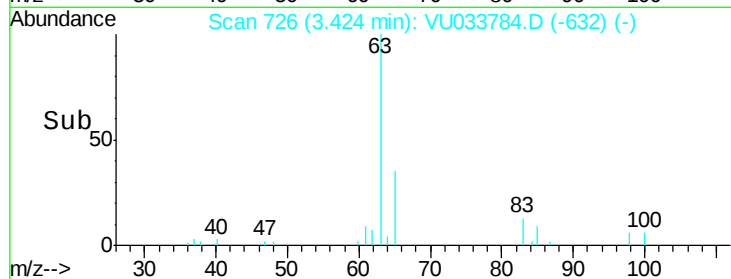
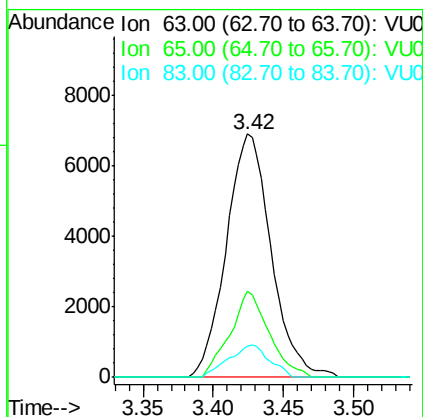
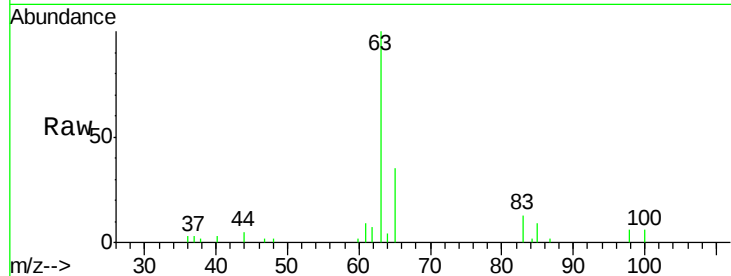




#19
 1,1-Dichloroethane
 Concen: 2.591 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

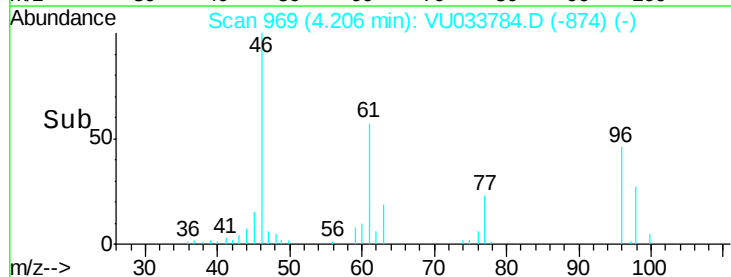
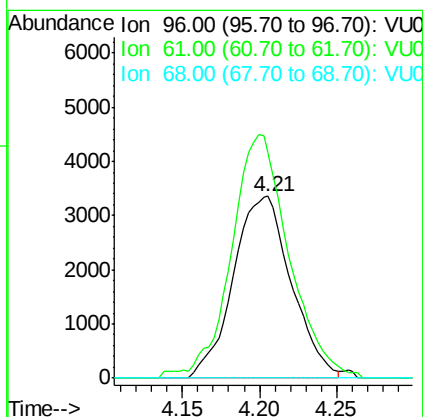
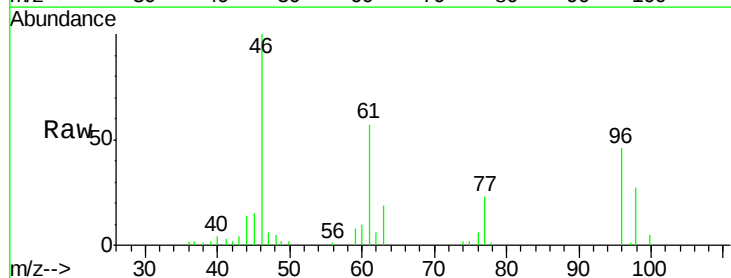
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

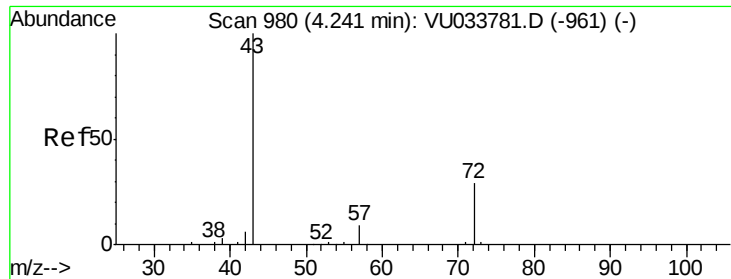
Tot Ion: 63 Resp: 15306
 Ion Ratio Lower Upper
 63 100
 65 35.2 22.8 42.4
 83 13.0 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 2.589 ug/L
 RT: 4.21 min Scan# 969
 Delta R.T. 0.01 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

Tgt Ion: 96 Resp: 8742
 Ion Ratio Lower Upper
 96 100
 61 124.0 88.3 163.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 4.471 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.01 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampled :

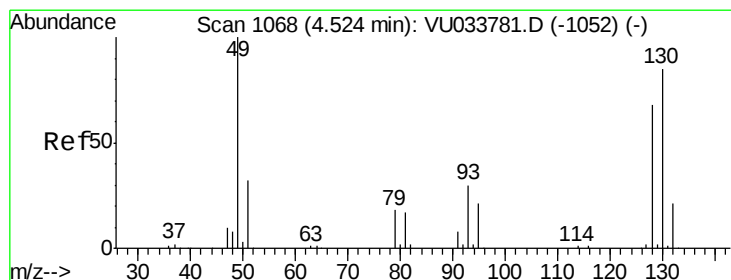
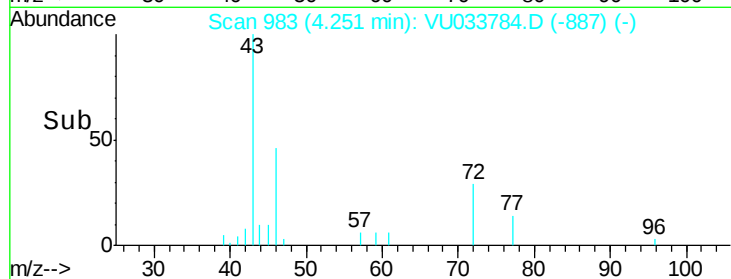
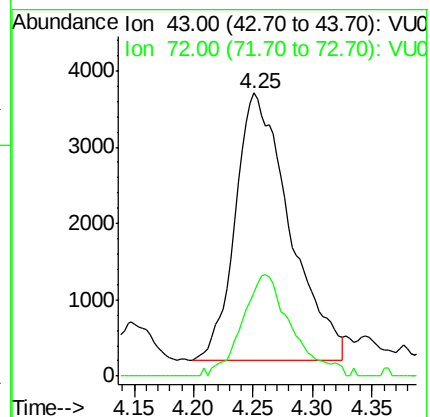
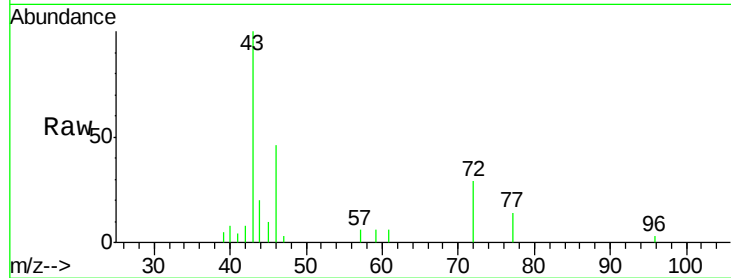
MDL03

Tot Ion: 43 Resp: 11138

Ion Ratio Lower Upper

43 100

72 33.3 14.5 43.5



#23

Bromochloromethane

Concen: 2.494 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Tgt Ion: 128 Resp: 4364

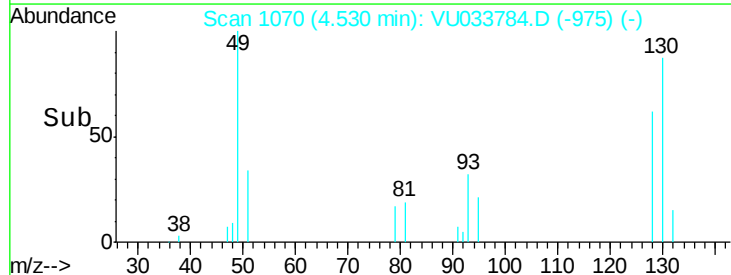
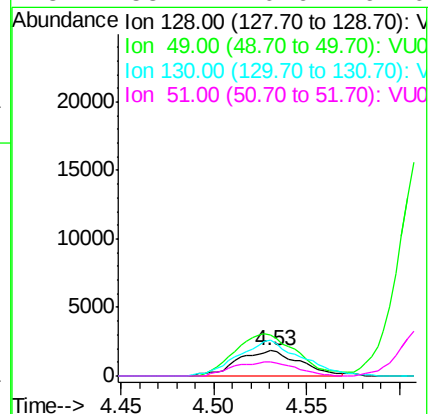
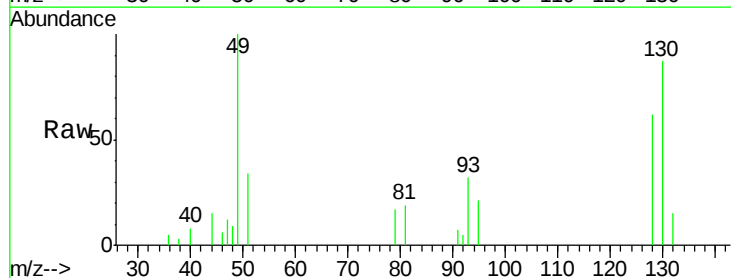
Ion Ratio Lower Upper

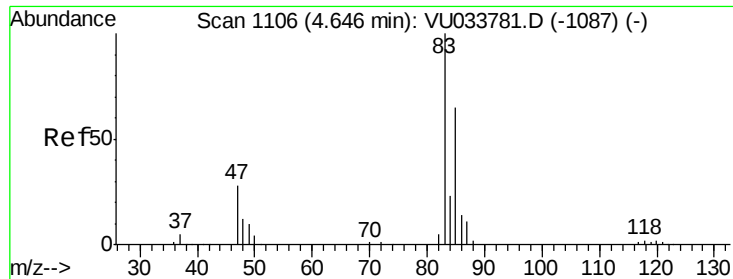
128 100

49 160.1 108.1 200.7

130 140.1 91.8 170.6

51 55.2 40.6 61.0





#25

Chloroform

Concen: 3.021 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

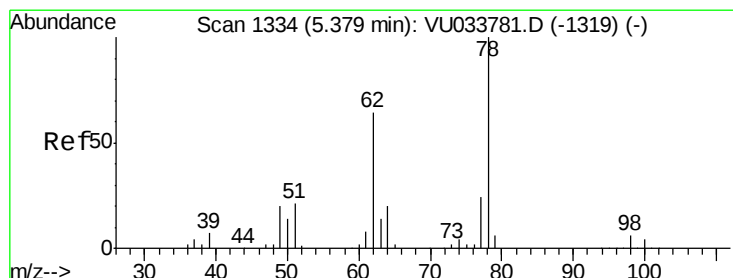
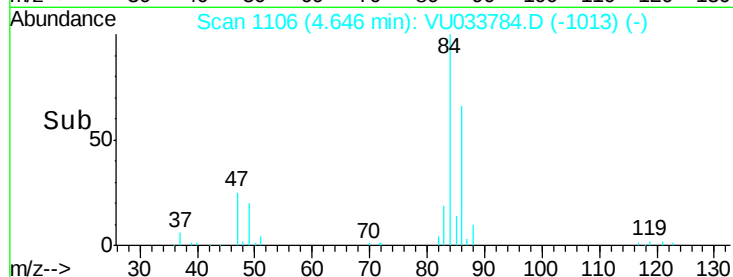
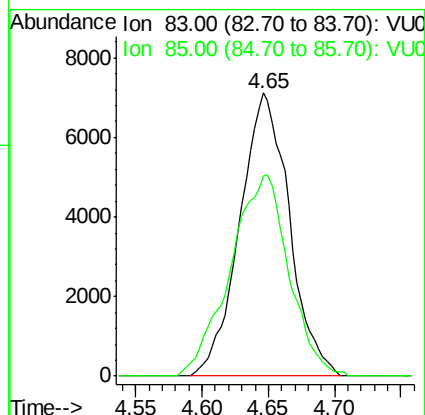
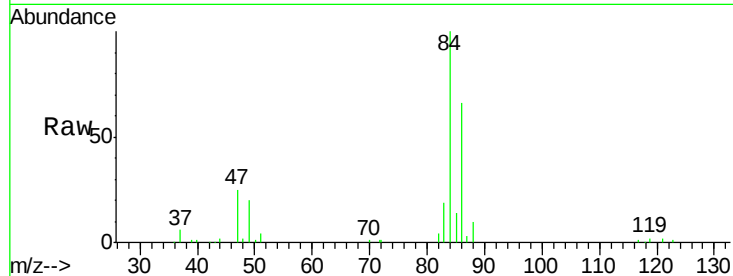
MDL03

Tot Ion: 83 Resp: 18553

Ion Ratio Lower Upper

83 100

85 70.6 45.6 84.6



#27

1,2-Dichloroethane

Concen: 2.875 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU033784.D

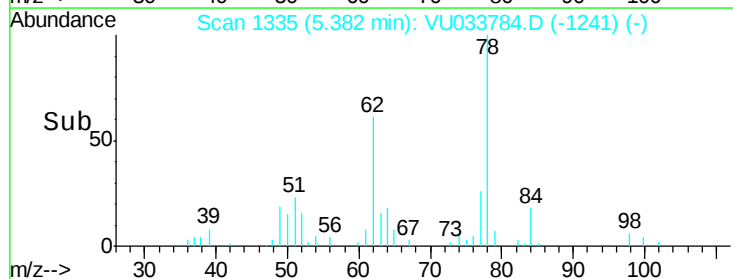
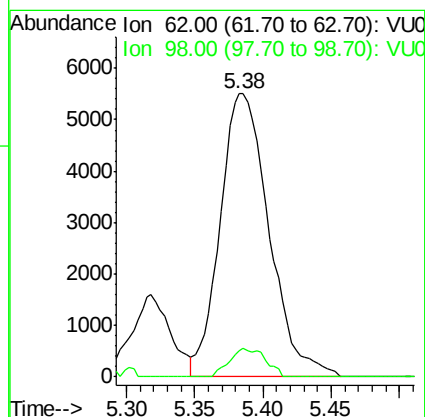
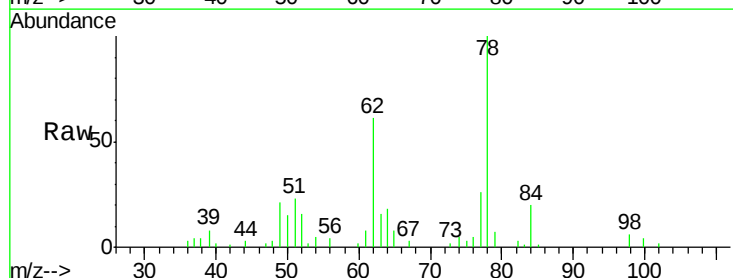
Acq: 13 Aug 2019 16:23

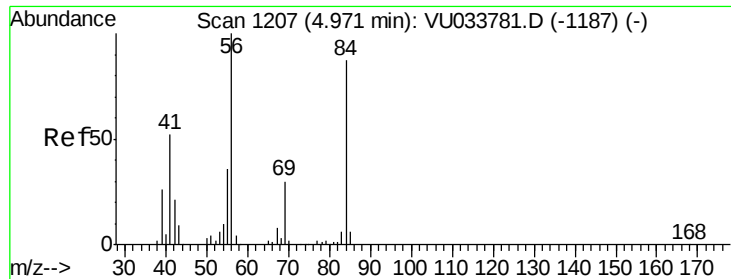
Tgt Ion: 62 Resp: 13716

Ion Ratio Lower Upper

62 100

98 9.4 7.4 11.0

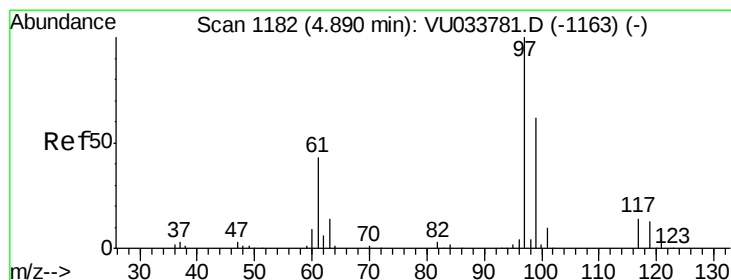
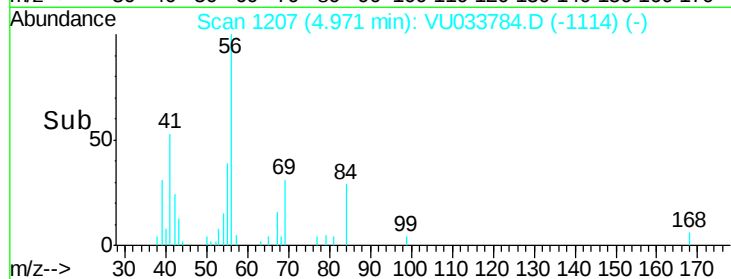
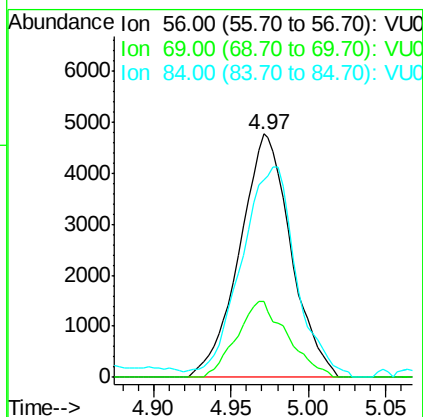
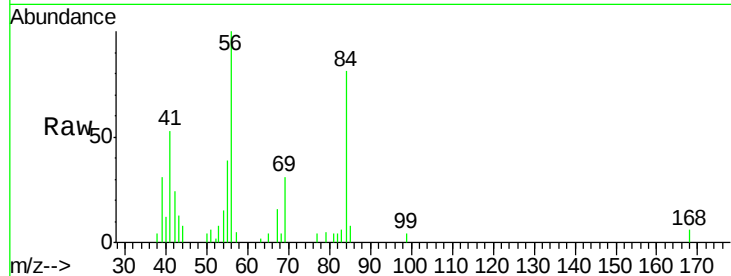




#29
Cyclohexane
Concen: 2.408 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033784.D
Acq: 13 Aug 2019 16:23

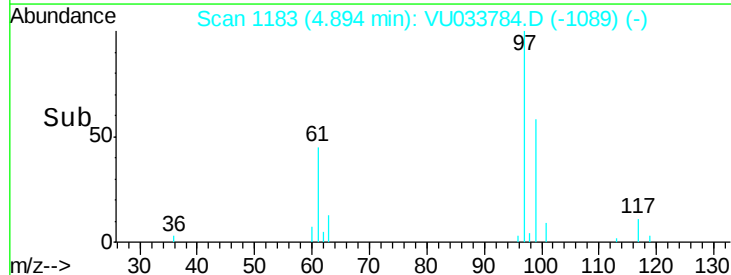
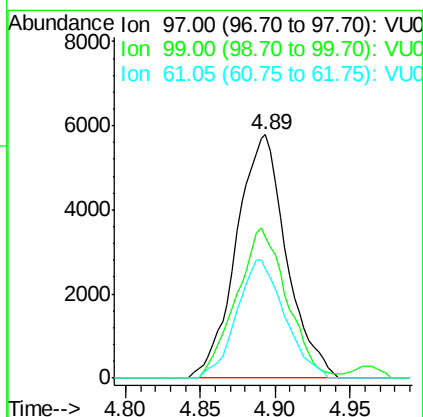
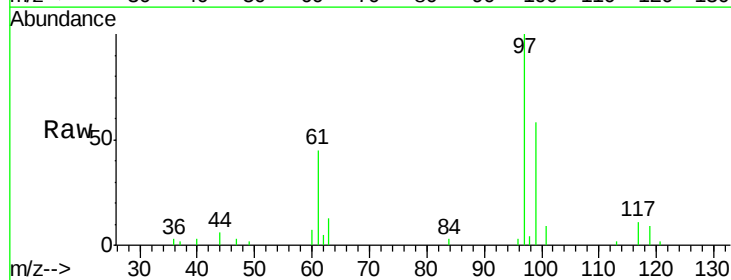
Instrument :
MSVOA_U
ClientSampled :
MDL03

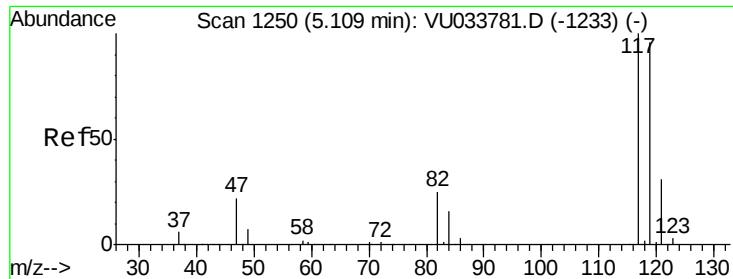
Tot Ion: 56 Resp: 10998
Ion Ratio Lower Upper
56 100
69 30.9 25.0 37.4
84 92.0 70.3 105.5



#30
1,1,1-Trichloroethane
Concen: 2.648 ug/L
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU033784.D
Acq: 13 Aug 2019 16:23

Tgt Ion: 97 Resp: 13496
Ion Ratio Lower Upper
97 100
99 61.9 50.9 76.3
61 46.2 36.6 54.8





#31

Carbon tetrachloride

Concen: 2.558 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

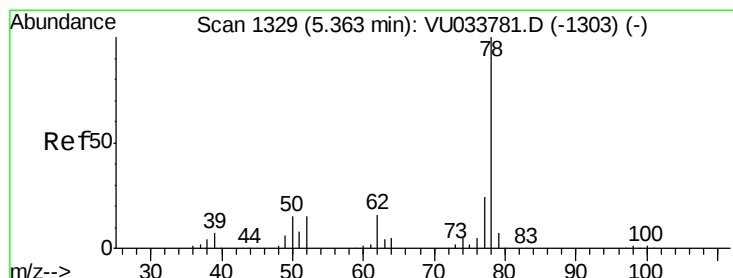
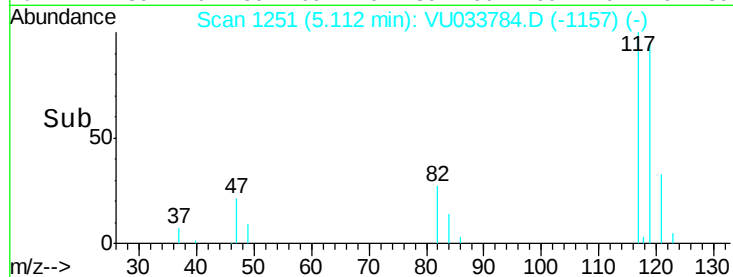
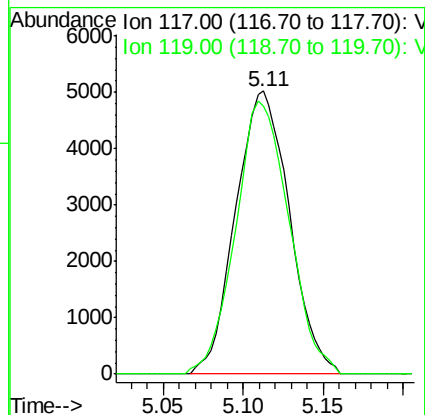
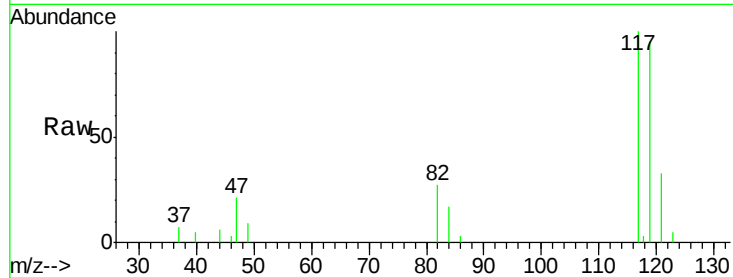
MDL03

Tot Ion:117 Resp: 11579

Ion Ratio Lower Upper

117 100

119 95.4 77.5 116.3



#33

Benzene

Concen: 2.604 ug/L

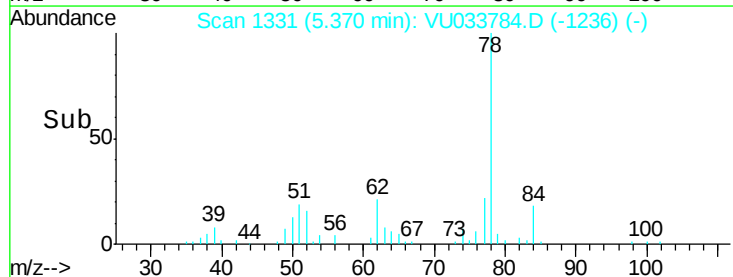
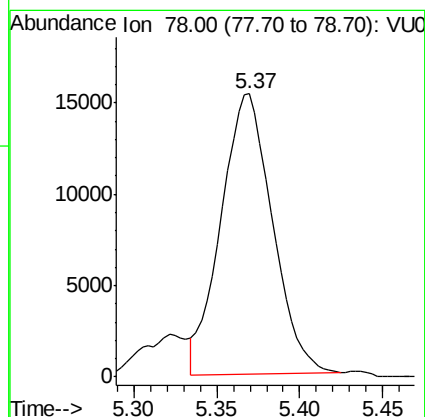
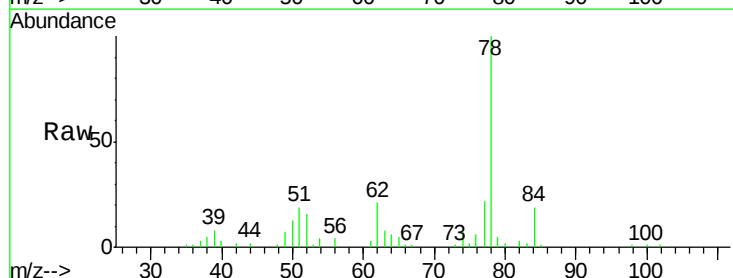
RT: 5.37 min Scan# 1331

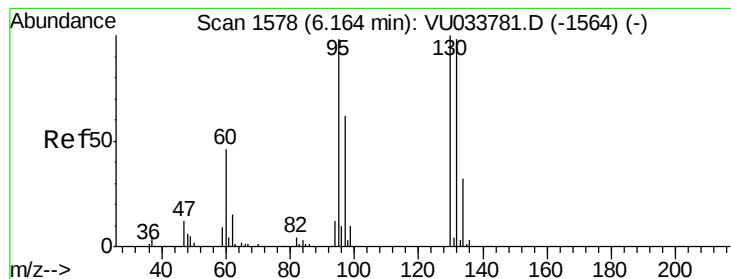
Delta R.T. 0.01 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Tgt Ion: 78 Resp: 33109





#34

Trichloroethene

Concen: 2.536 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 95 Resp: 8542

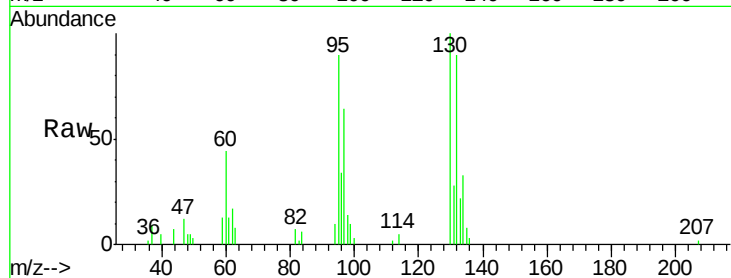
Ion Ratio Lower Upper

95 100

97 71.5 45.1 83.7

132 99.7 67.9 126.1

130 111.2 71.6 133.0

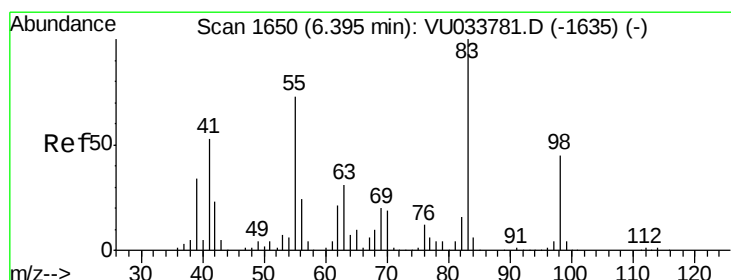
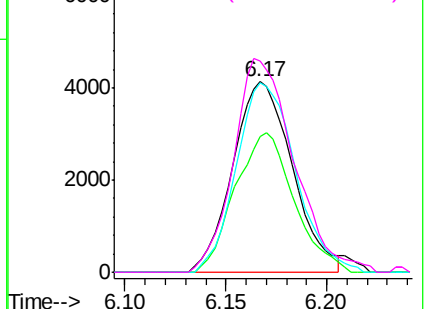
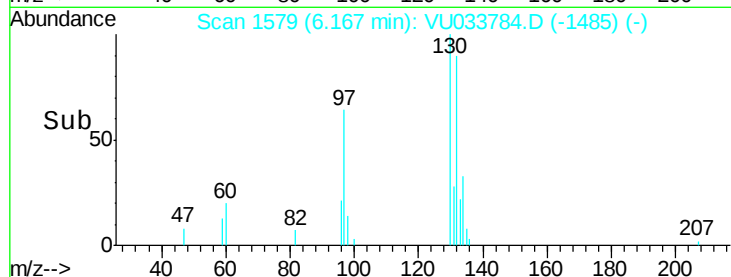


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 2.220 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

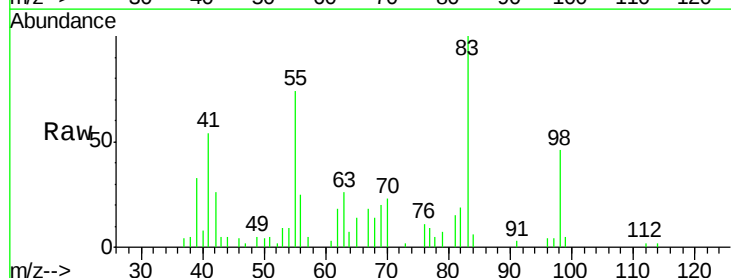
Tgt Ion: 83 Resp: 10899

Ion Ratio Lower Upper

83 100

55 83.9 62.2 93.4

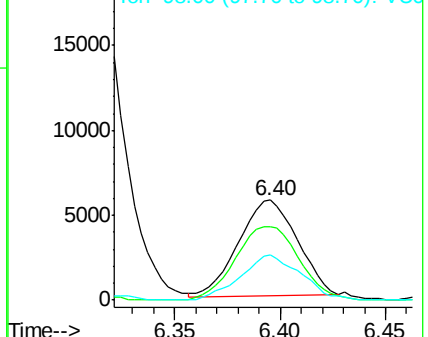
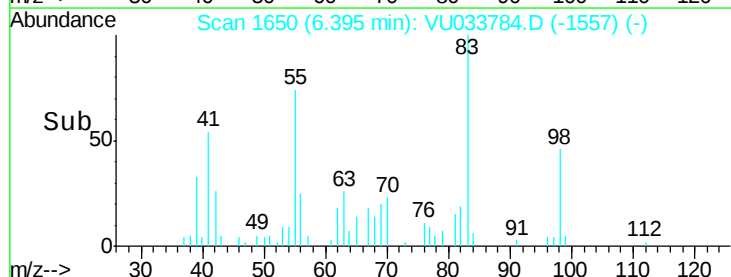
98 48.4 35.8 53.8

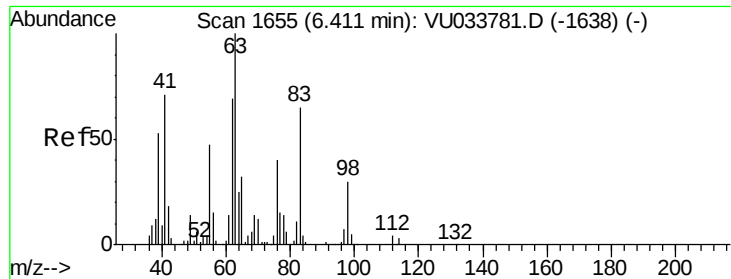


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 2.712 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampled :

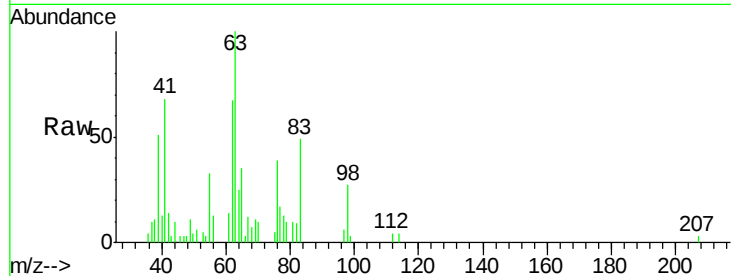
MDL03

Tot Ion: 63 Resp: 9395

Ion Ratio Lower Upper

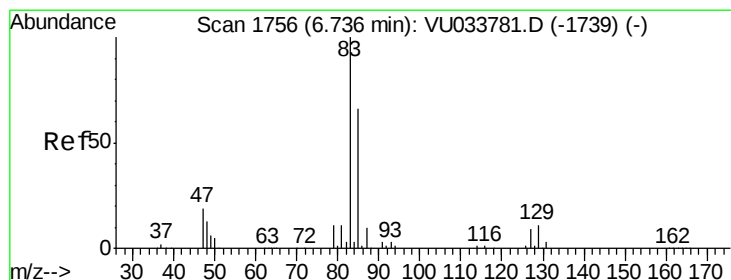
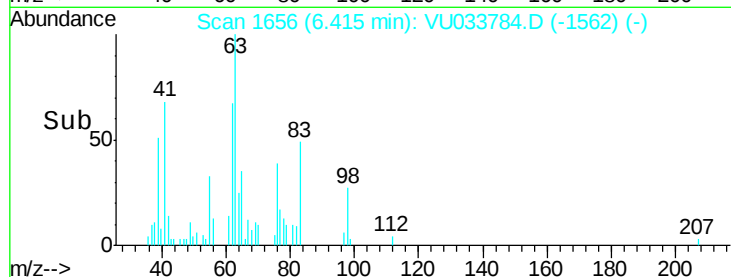
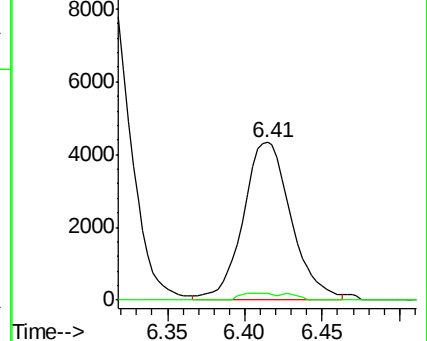
63 100

112 3.0 3.0 4.6#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 2.551 ug/L

RT: 6.74 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

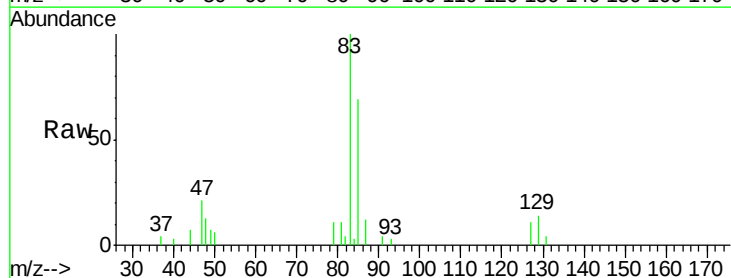
Tgt Ion: 83 Resp: 11404

Ion Ratio Lower Upper

83 100

85 69.4 45.8 85.0

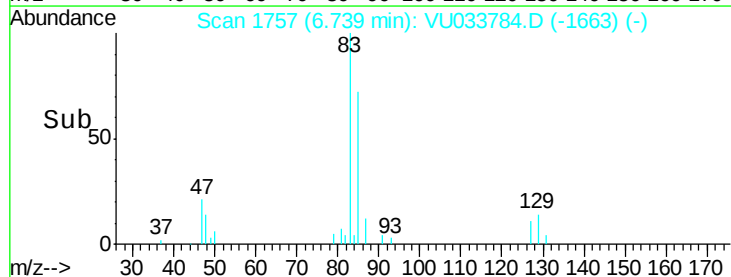
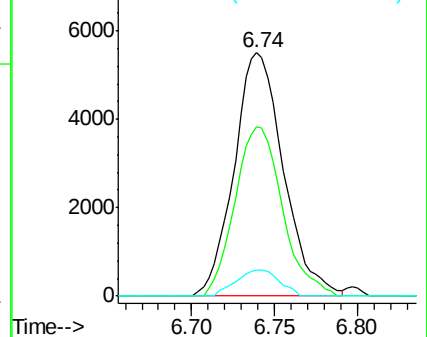
127 10.9 7.4 11.0

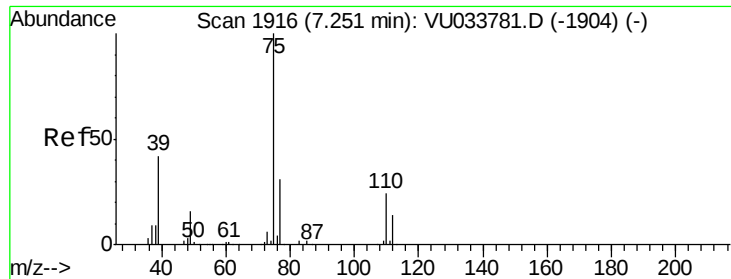


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

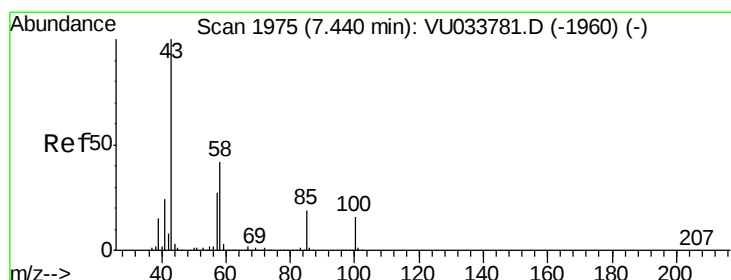
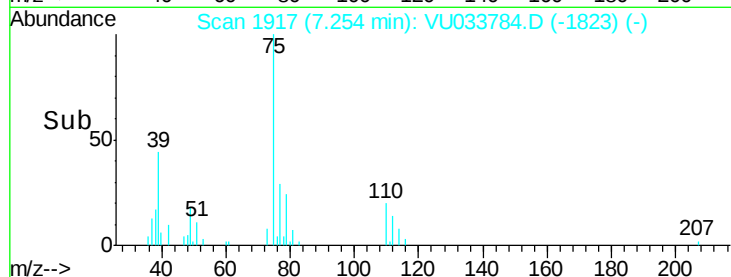
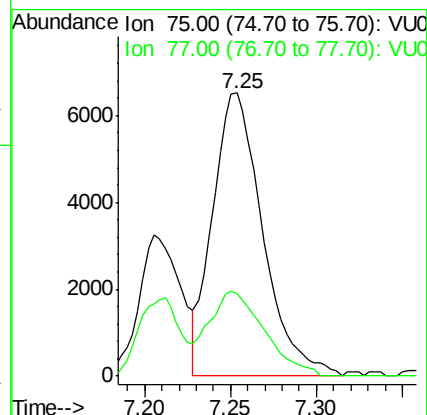
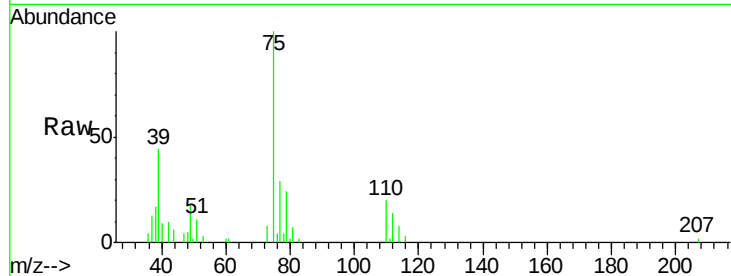




#39
 cis-1,3-Dichloropropene
 Concen: 2.593 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

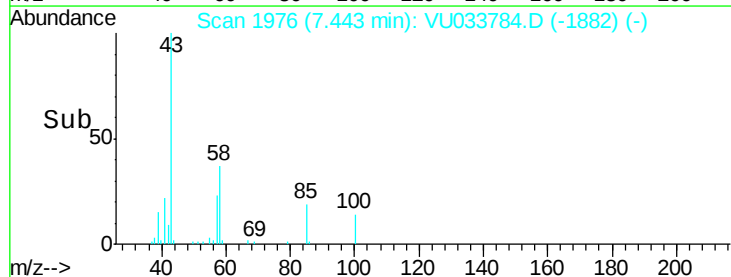
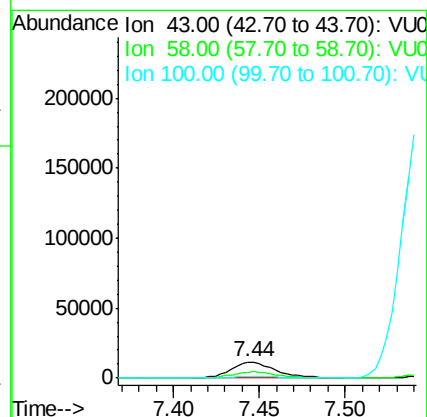
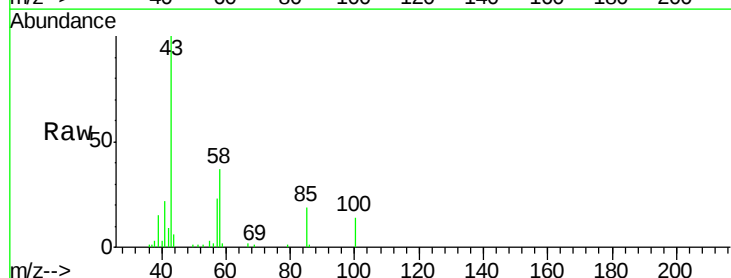
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

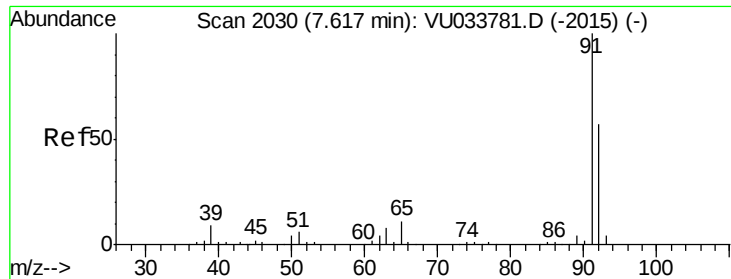
Tot Ion: 75 Resp: 13260
 Ion Ratio Lower Upper
 75 100
 77 28.9 22.0 40.8



#40
 4-Methyl-2-pentanone
 Concen: 4.770 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

Tgt Ion: 43 Resp: 20562
 Ion Ratio Lower Upper
 43 100
 58 39.9 32.5 48.7
 100 13.1 12.2 18.2





#42

Toluene

Concen: 2.622 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

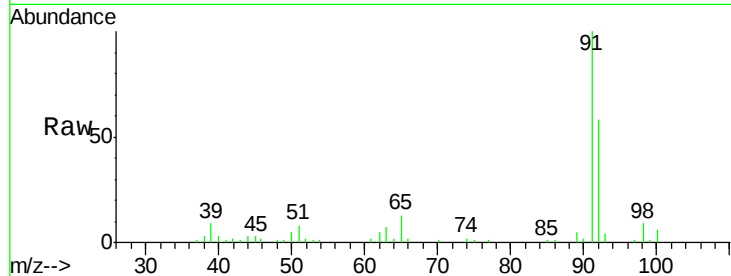
MDL03

Tot Ion: 91 Resp: 35207

Ion Ratio Lower Upper

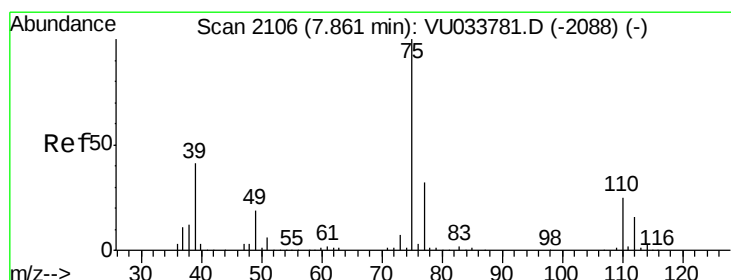
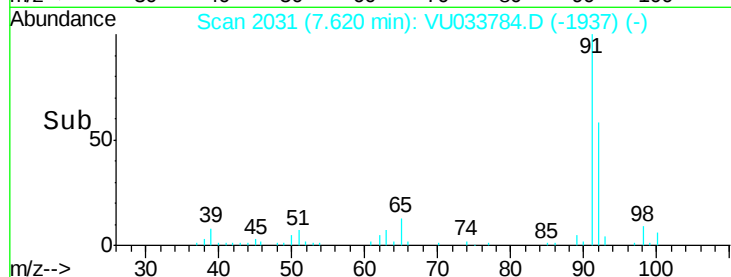
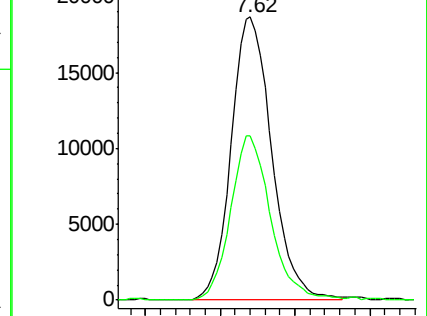
91 100

92 58.2 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU033784.D (-2015) (-)

Ion 92.00 (91.70 to 92.70): VU033784.D (-2015) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.451 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033784.D

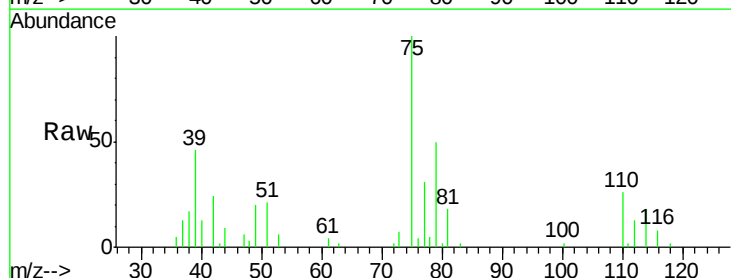
Acq: 13 Aug 2019 16:23

Tgt Ion: 75 Resp: 11417

Ion Ratio Lower Upper

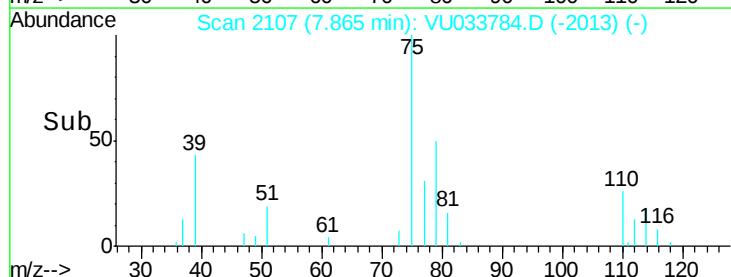
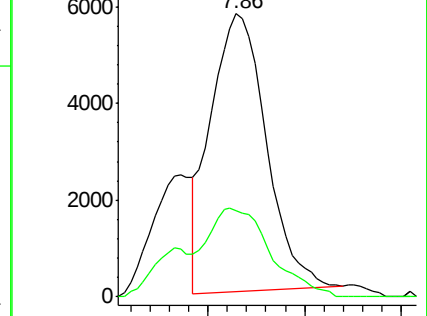
75 100

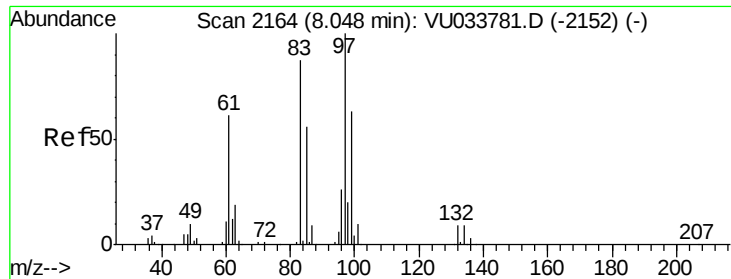
77 30.5 22.7 42.3



Abundance Ion 75.00 (74.70 to 75.70): VU033784.D (-2013) (-)

Ion 77.00 (76.70 to 77.70): VU033784.D (-2013) (-)

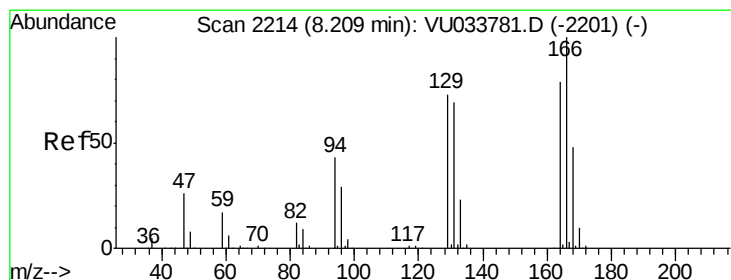
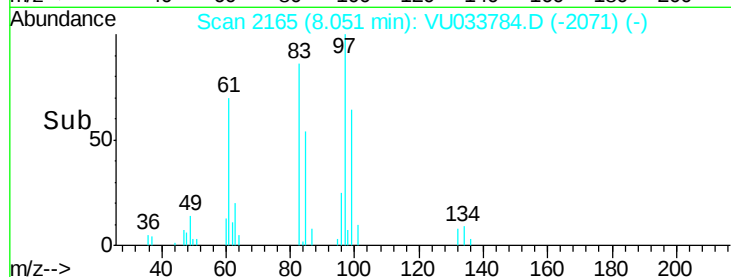
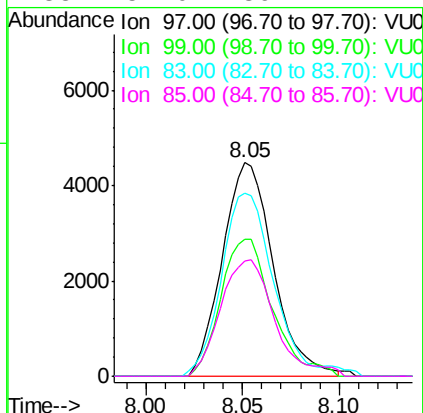
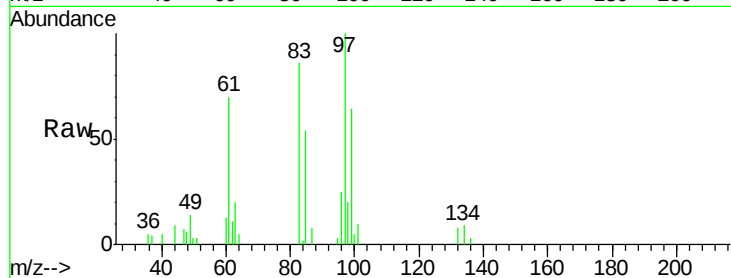




#45
1,1,2-Trichloroethane
Concen: 2.509 ug/L
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VU033784.D
Acq: 13 Aug 2019 16:23

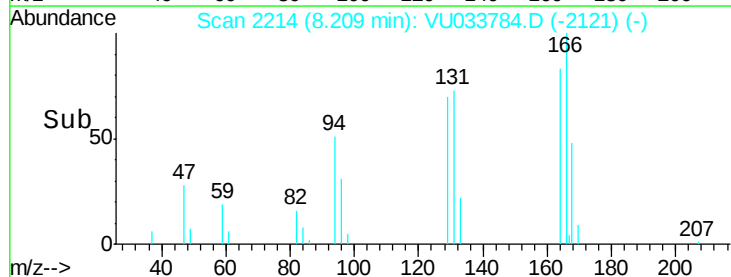
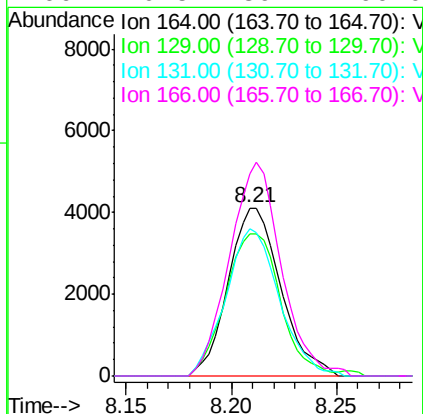
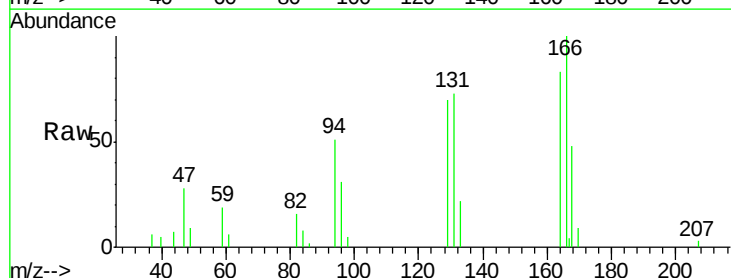
Instrument :
MSVOA_U
ClientSampleId :
MDL03

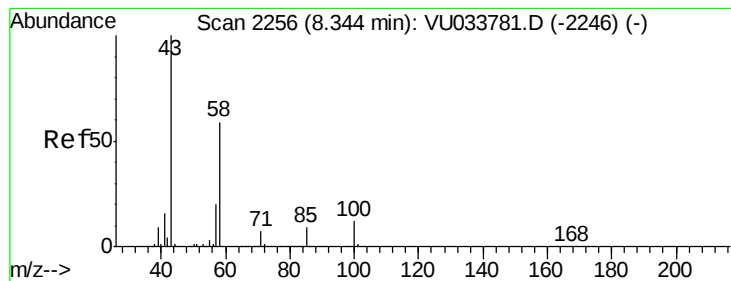
Tot Ion:	97	Resp:	8205
Ion	Ratio	Lower	Upper
97	100		
99	64.4	43.5	80.9
83	85.5	61.8	114.8
85	54.0	39.1	72.7



#46
Tetrachloroethene
Concen: 2.697 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU033784.D
Acq: 13 Aug 2019 16:23

Tgt Ion:	164	Resp:	7126
Ion	Ratio	Lower	Upper
164	100		
129	84.6	65.5	121.6
131	87.8	64.0	119.0
166	120.5	89.4	166.0





#48

2-Hexanone

Concen: 6.010 ug/L

RT: 8.35 min Scan# 2257

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 19832

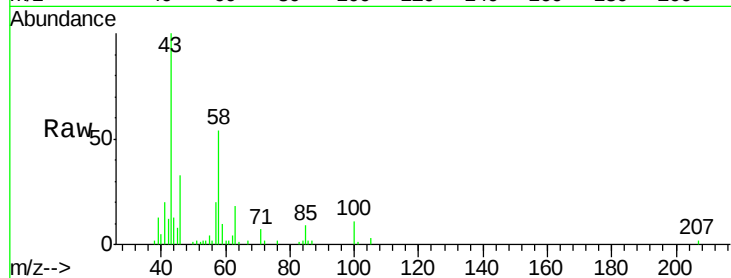
Ion Ratio Lower Upper

43 100

58 65.5 45.4 68.0

57 22.4 15.4 23.0

100 13.0 9.4 14.2

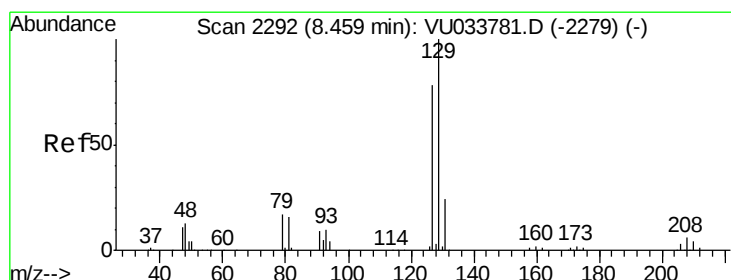
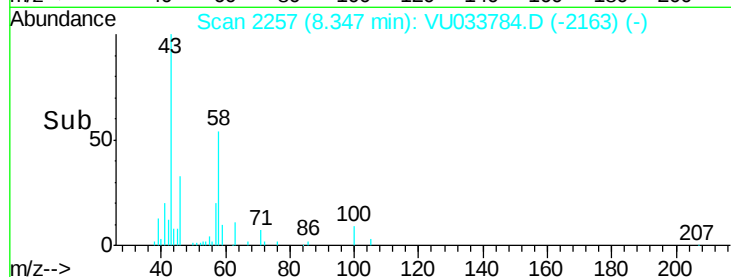
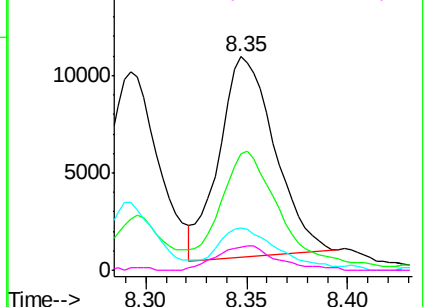


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



#49

Dibromochloromethane

Concen: 2.466 ug/L

RT: 8.46 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VU033784.D

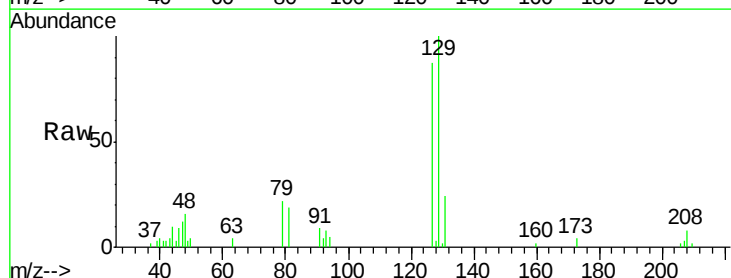
Acq: 13 Aug 2019 16:23

Tgt Ion: 129 Resp: 9003

Ion Ratio Lower Upper

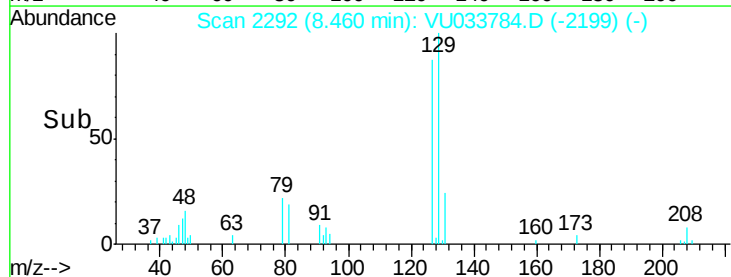
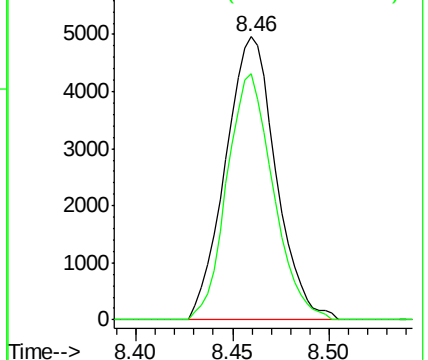
129 100

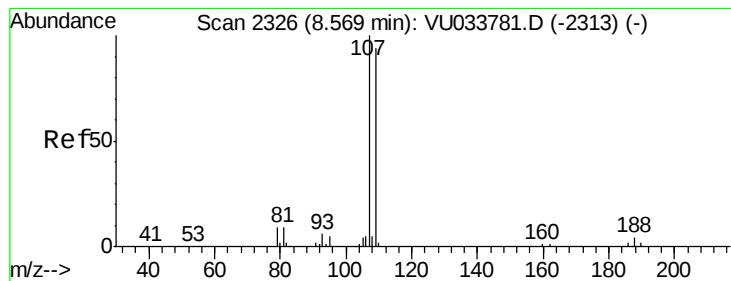
127 86.9 54.4 101.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 2.721 ug/L

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

MDL03

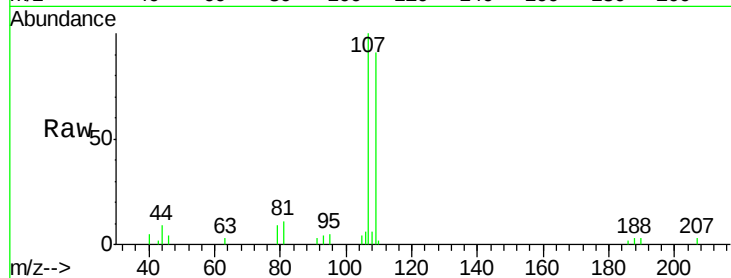
Tot Ion:107 Resp: 9335

Ion Ratio Lower Upper

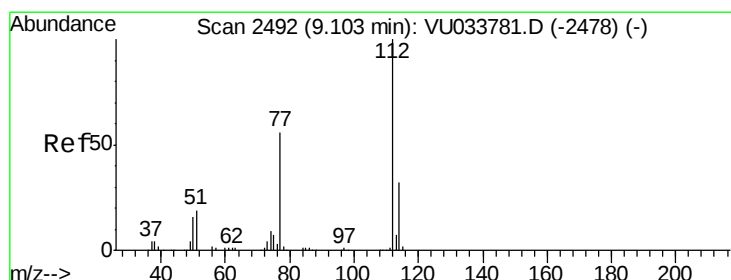
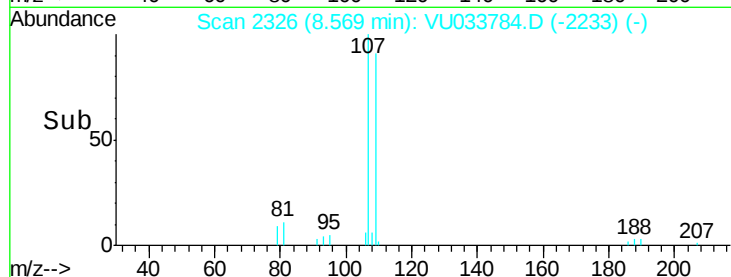
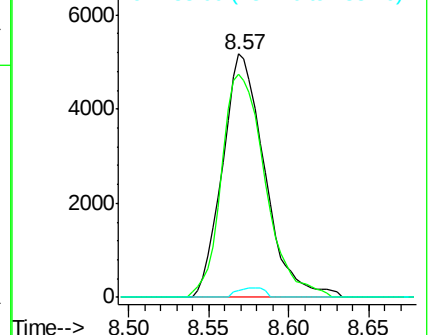
107 100

109 91.4 66.0 122.6

188 3.0 3.0 4.6#



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



#51

Chlorobenzene

Concen: 2.593 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

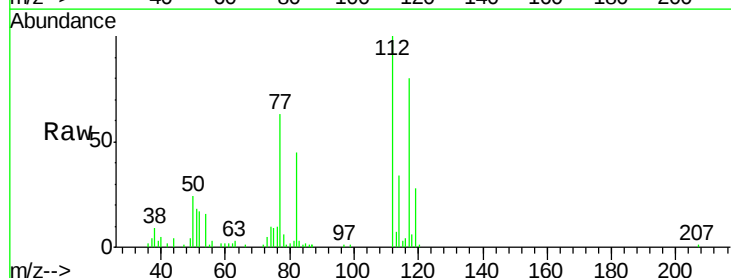
Tgt Ion:112 Resp: 22662

Ion Ratio Lower Upper

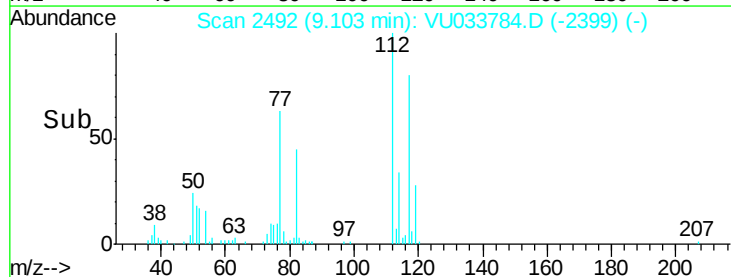
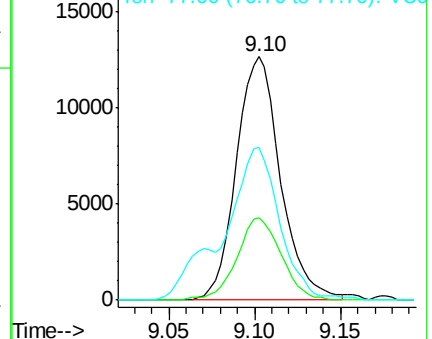
112 100

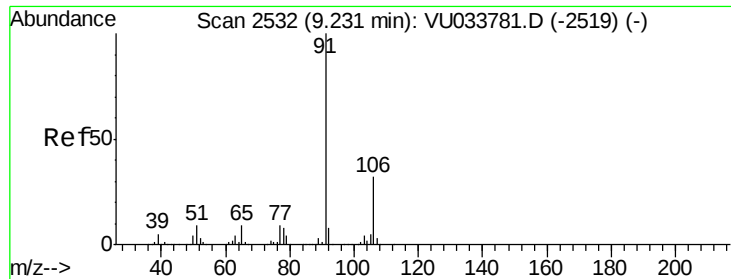
114 33.8 22.4 41.6

77 62.8 46.2 69.4



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





#52

Ethylbenzene

Concen: 2.427 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

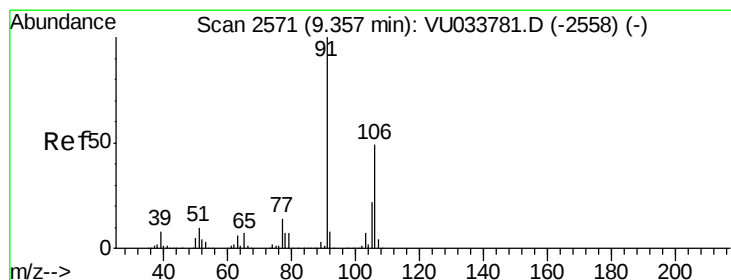
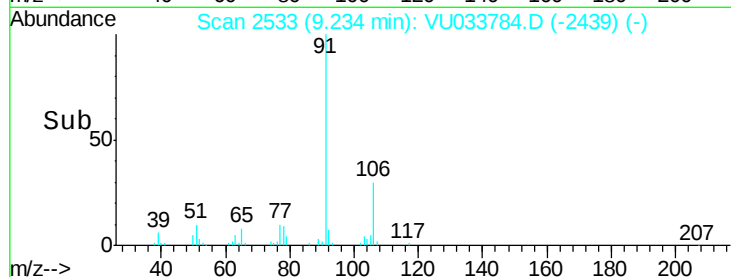
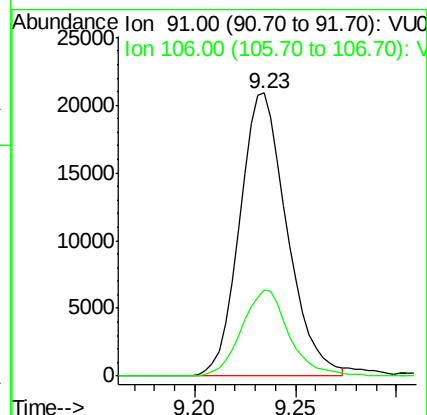
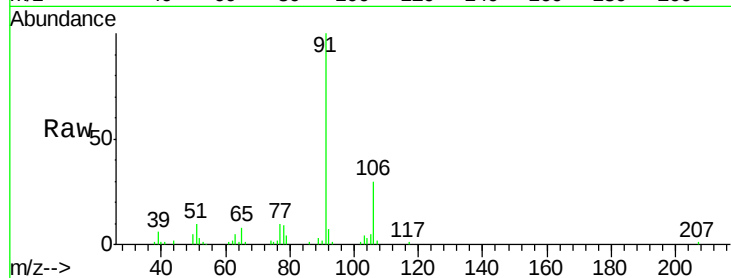
MDL03

Tot Ion: 91 Resp: 34292

Ion Ratio Lower Upper

91 100

106 30.4 22.0 41.0



#53

m,p-Xylene

Concen: 2.329 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033784.D

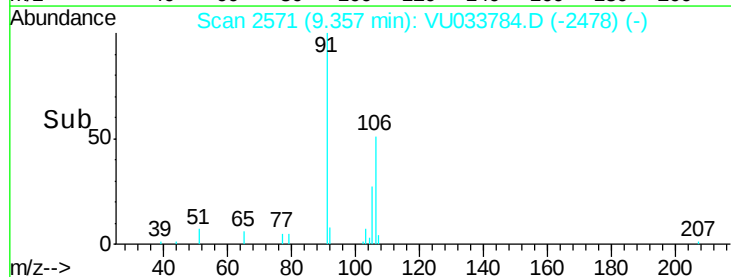
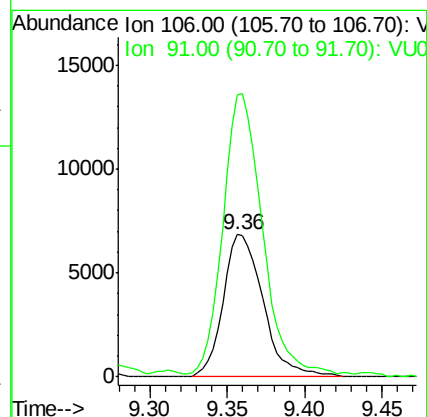
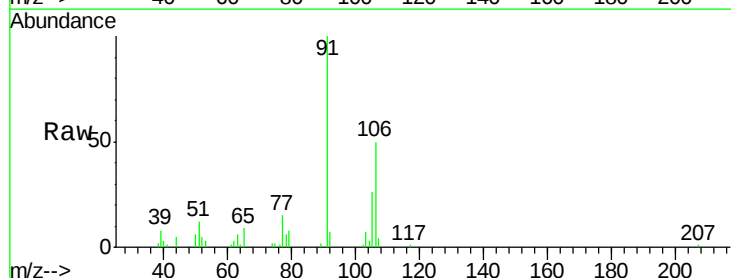
Acq: 13 Aug 2019 16:23

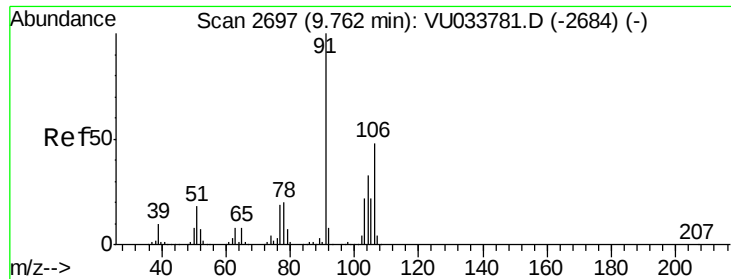
Tgt Ion: 106 Resp: 12300

Ion Ratio Lower Upper

106 100

91 198.3 142.1 263.9

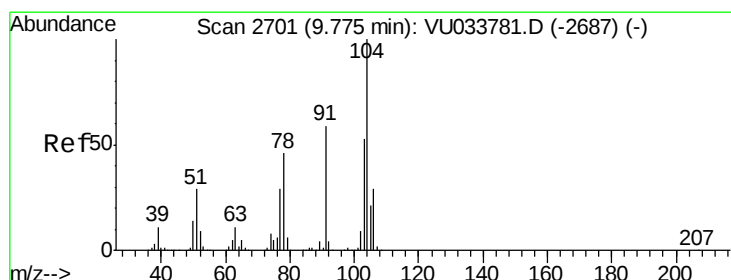
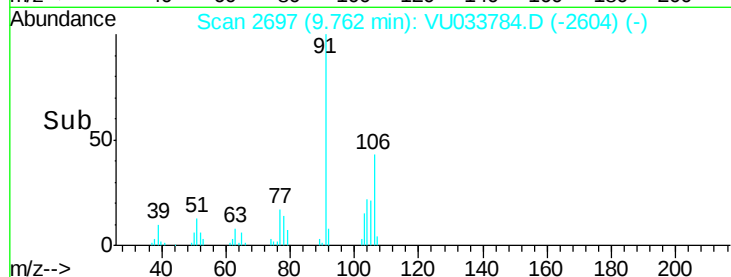
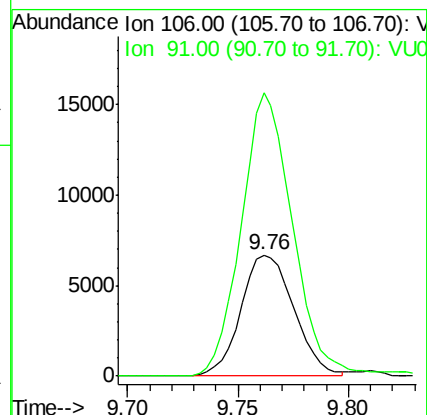
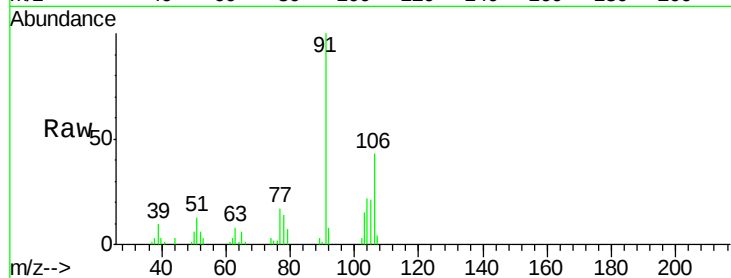




#54
o-xylene
Concen: 2.157 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU033784.D
Acq: 13 Aug 2019 16:23

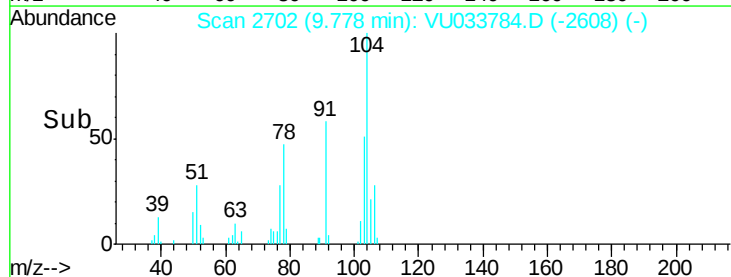
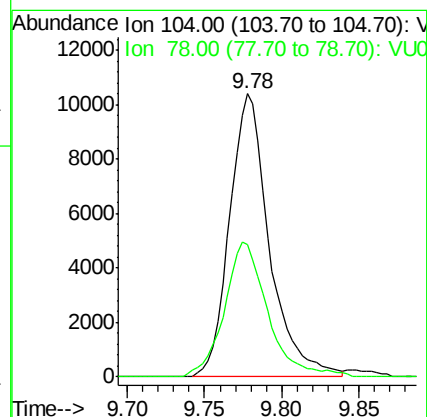
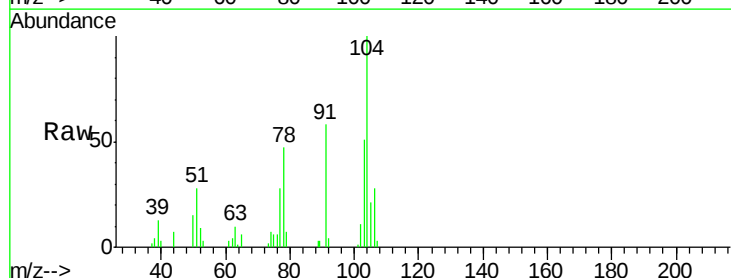
Instrument :
MSVOA_U
ClientSampleId :
MDL03

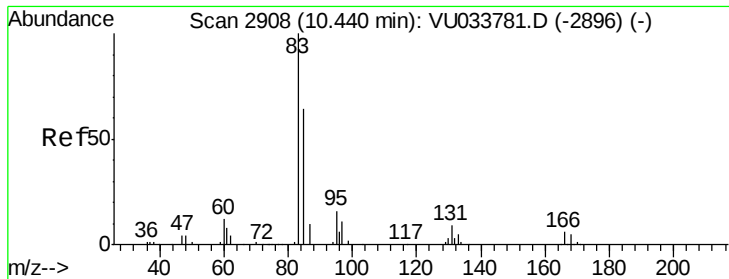
Tot Ion:106 Resp: 11207
Ion Ratio Lower Upper
106 100
91 233.6 150.4 279.4



#55
Styrene
Concen: 2.099 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU033784.D
Acq: 13 Aug 2019 16:23

Tgt Ion:104 Resp: 18516
Ion Ratio Lower Upper
104 100
78 46.8 31.6 58.6





#57

1,1,2,2-Tetrachloroethane

Concen: 2.864 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

MDL03

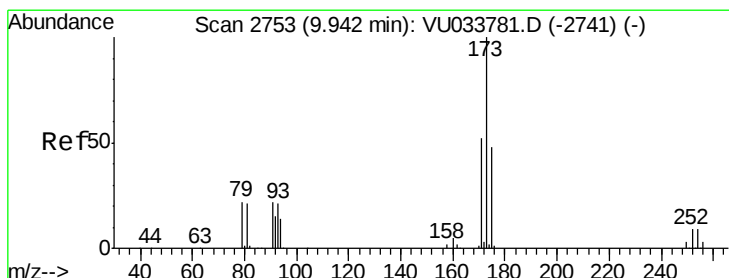
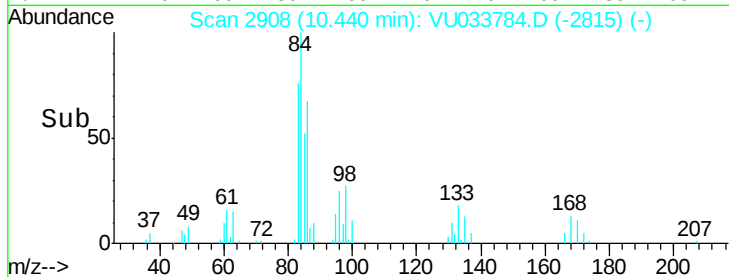
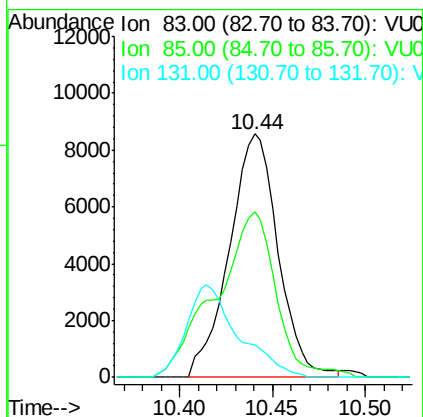
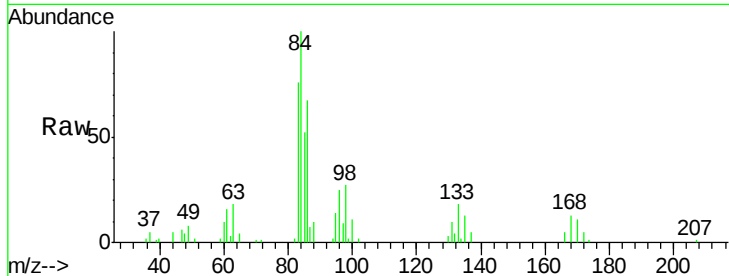
Tot Ion: 83 Resp: 15663

Ion Ratio Lower Upper

83 100

85 67.9 44.7 83.1

131 13.4 7.8 11.6#



#59

Bromoform

Concen: 2.722 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

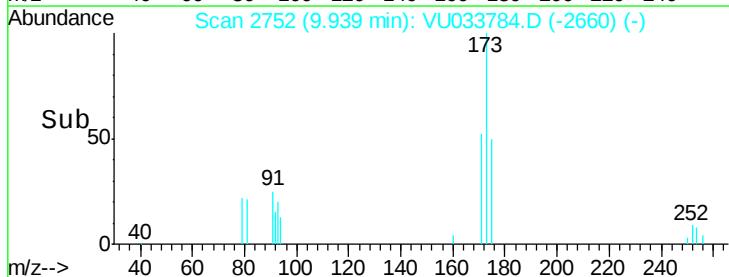
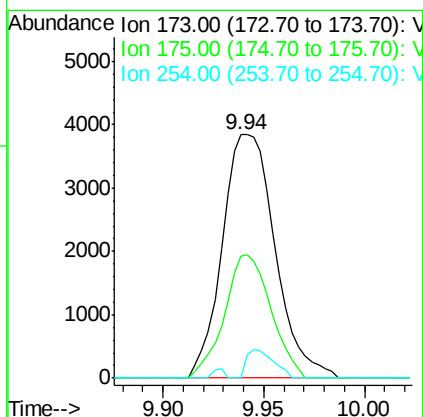
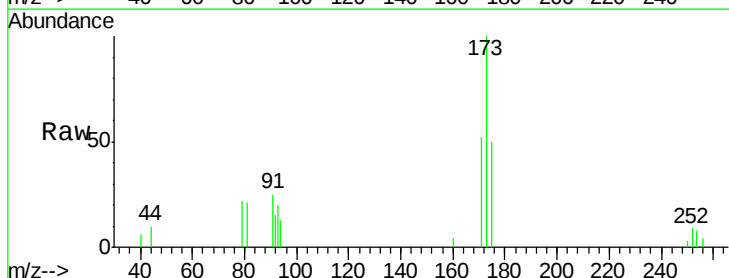
Tgt Ion: 173 Resp: 7037

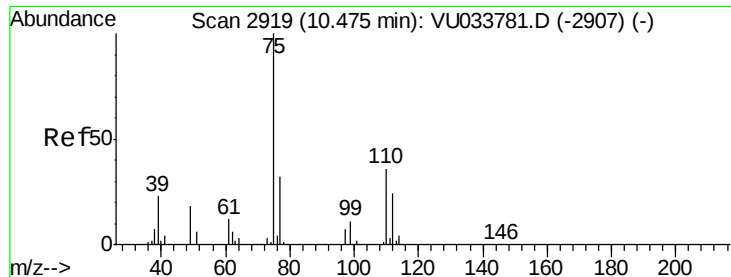
Ion Ratio Lower Upper

173 100

175 44.7 38.9 58.3

254 6.0 7.4 11.0#





#60

1,2,3-Trichloropropane

Concen: 2.836 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

MDL03

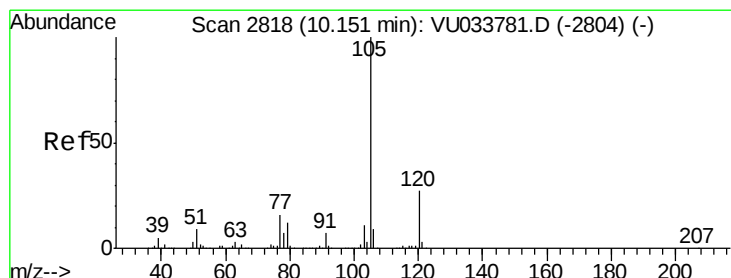
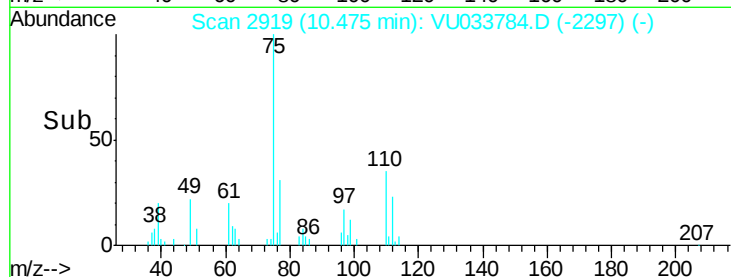
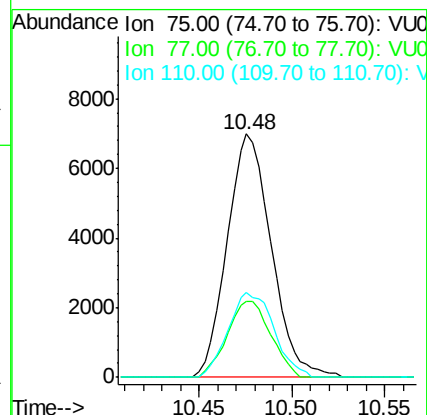
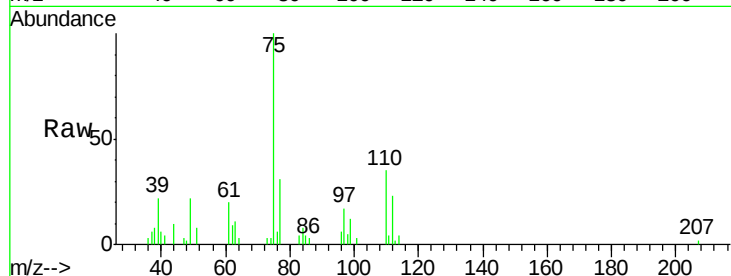
Tot Ion: 75 Resp: 11546

Ion Ratio Lower Upper

75 100

77 30.9 25.6 38.4

110 36.1 29.7 44.5



#61

Isopropylbenzene

Concen: 2.242 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

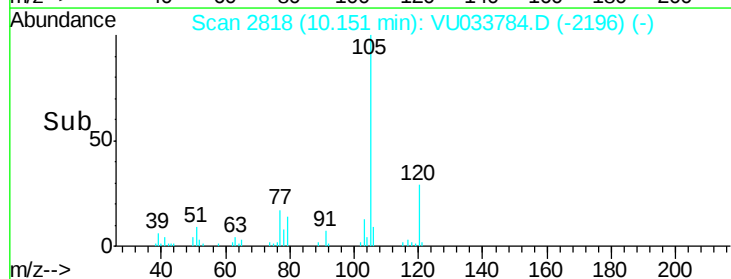
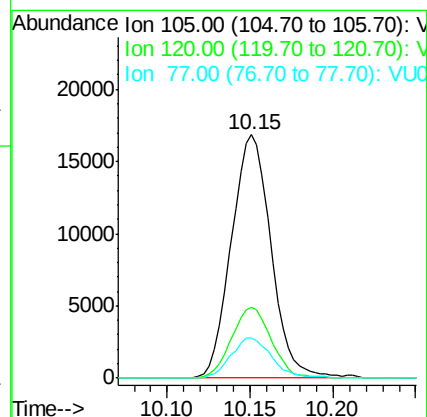
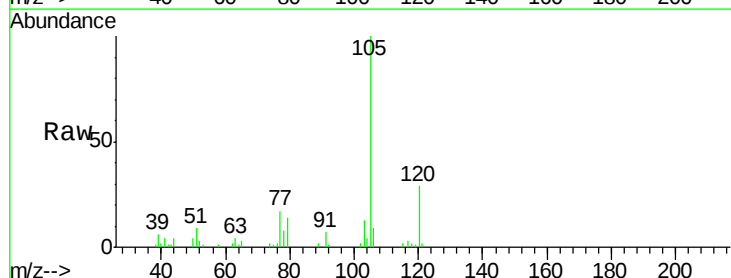
Tgt Ion: 105 Resp: 28088

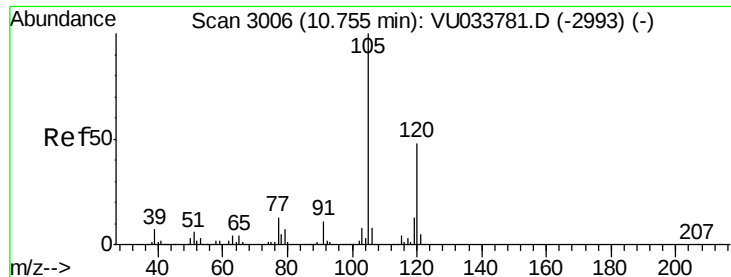
Ion Ratio Lower Upper

105 100

120 28.9 21.0 31.6

77 16.5 12.8 19.2





#62

1,3,5-Trimethylbenzene

Concen: 2.232 ug/L

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

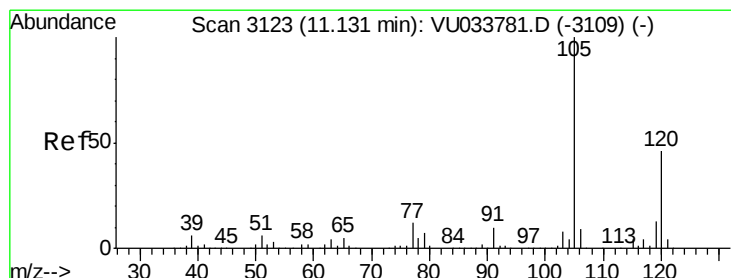
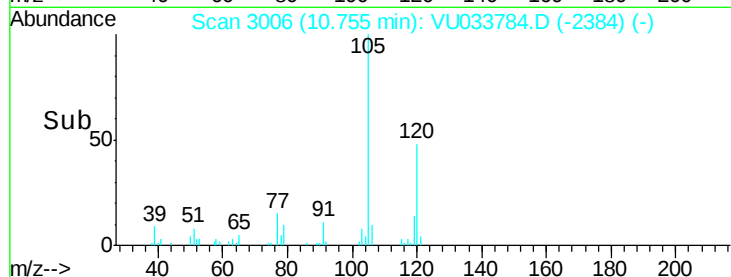
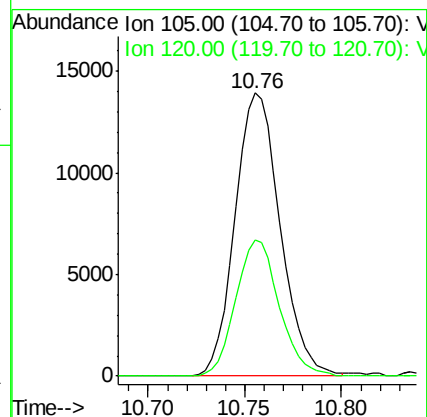
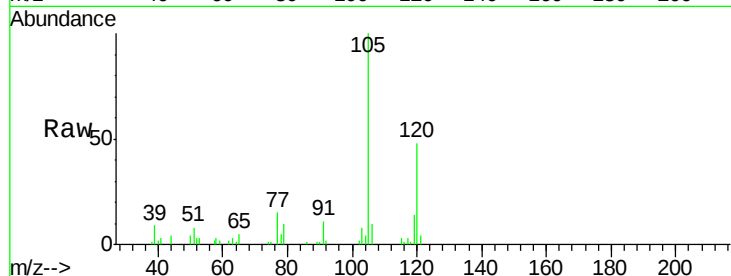
MDL03

Tot Ion:105 Resp: 22577

Ion Ratio Lower Upper

105 100

120 46.3 39.4 59.2



#63

1,2,4-Trimethylbenzene

Concen: 2.129 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033784.D

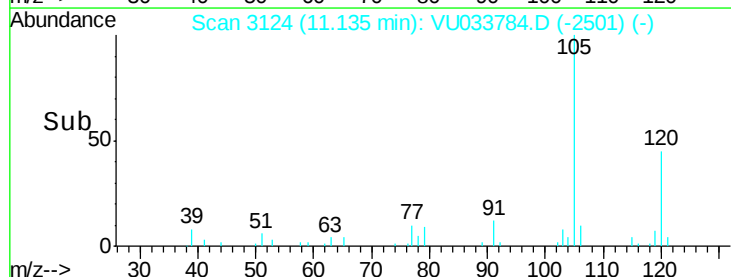
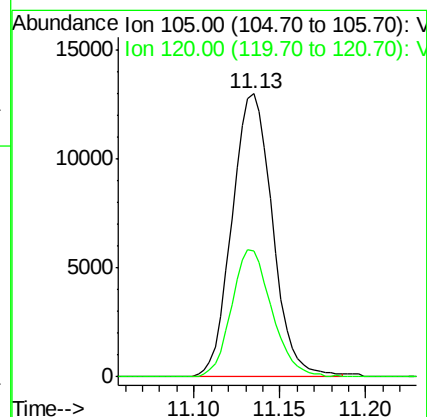
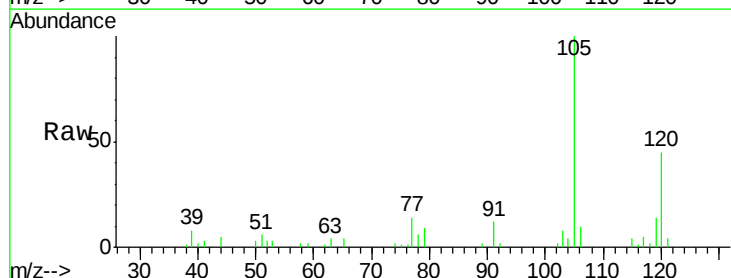
Acq: 13 Aug 2019 16:23

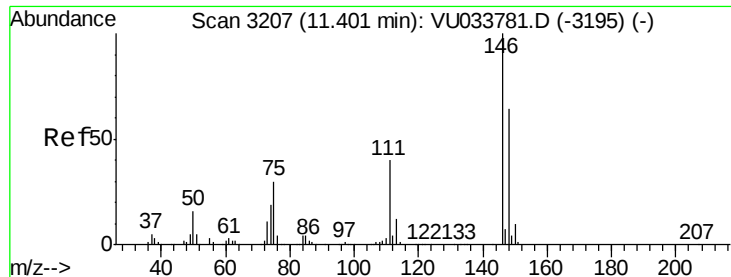
Tgt Ion:105 Resp: 21366

Ion Ratio Lower Upper

105 100

120 44.3 36.6 55.0

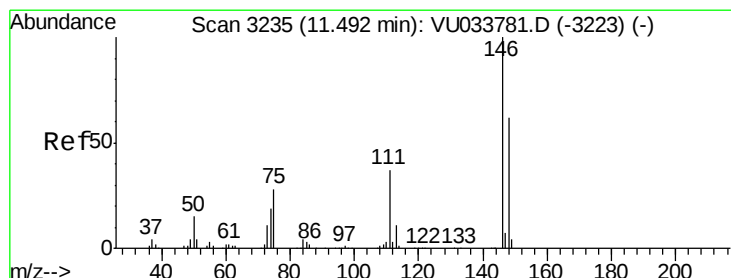
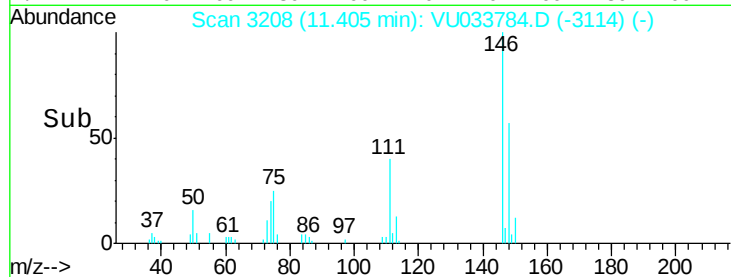
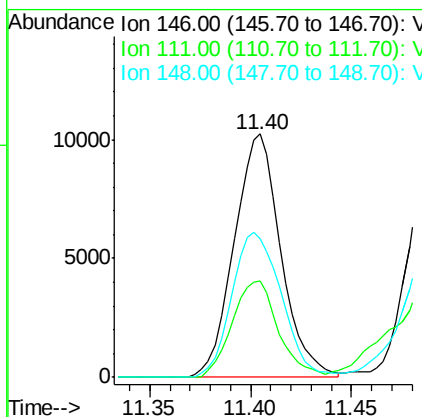
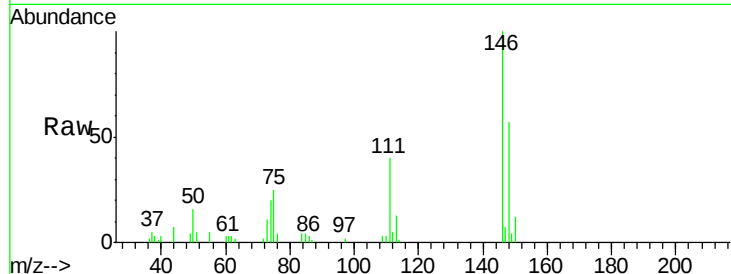




#64
 1,3-Dichlorobenzene
 Concen: 2.637 ug/L
 RT: 11.40 min Scan# 3208
 Delta R.T. 0.00 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

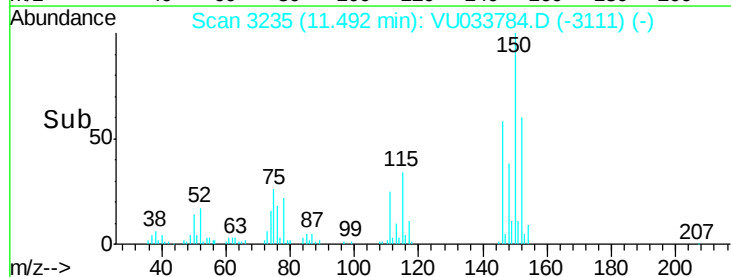
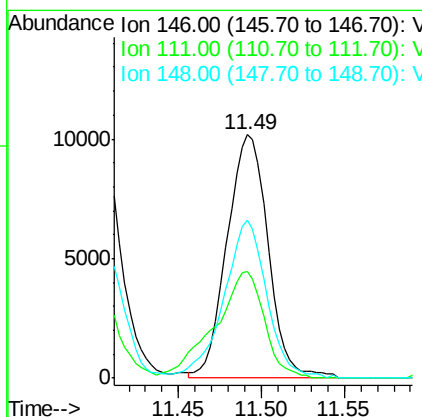
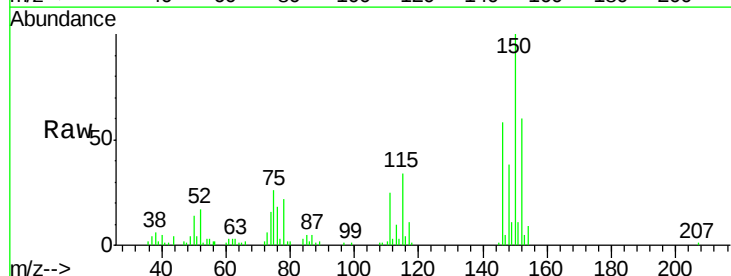
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

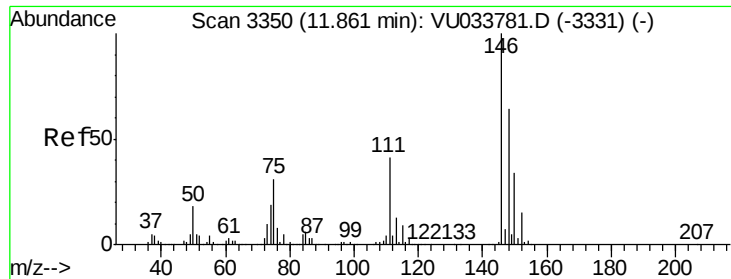
Tot Ion:146 Resp: 16572
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.1 50.3
 148 56.8 45.0 83.6



#65
 1,4-Dichlorobenzene
 Concen: 2.726 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

Tgt Ion:146 Resp: 17559
 Ion Ratio Lower Upper
 146 100
 111 43.6 26.5 49.3
 148 64.8 43.9 81.5

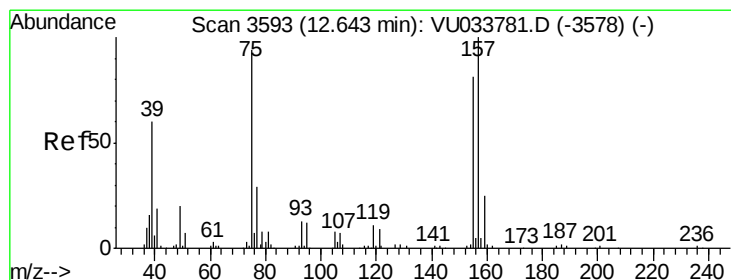
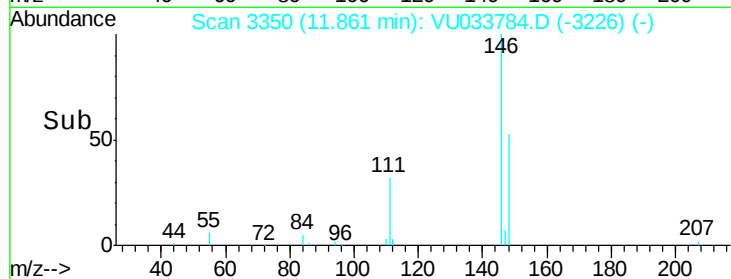
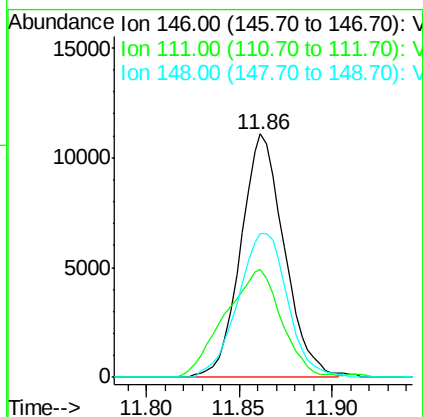
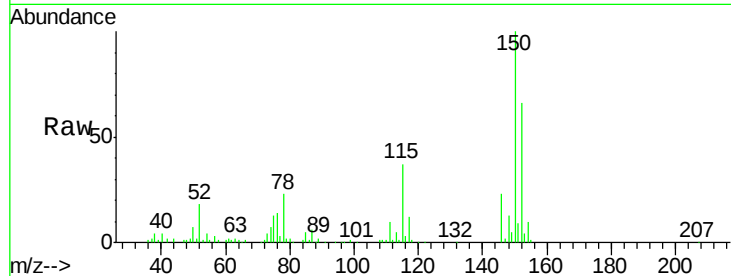




#67
 1,2-Dichlorobenzene
 Concen: 2.823 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

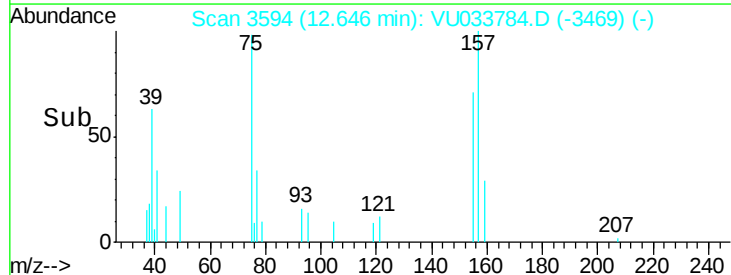
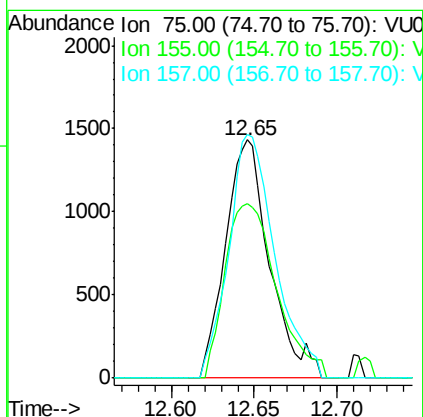
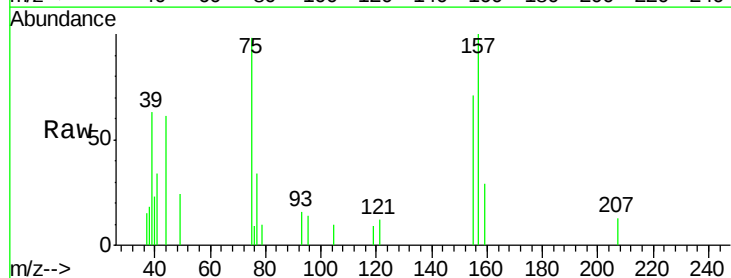
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

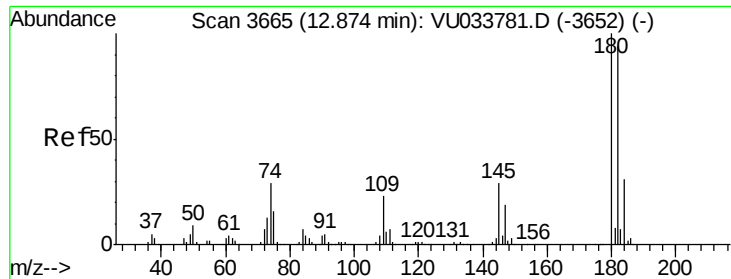
Tot Ion:146 Resp: 18027
 Ion Ratio Lower Upper
 146 100
 111 44.2 33.1 49.7
 148 59.1 51.8 77.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.336 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.00 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

Tgt Ion: 75 Resp: 2652
 Ion Ratio Lower Upper
 75 100
 155 73.1 65.9 98.9
 157 102.3 86.3 129.5

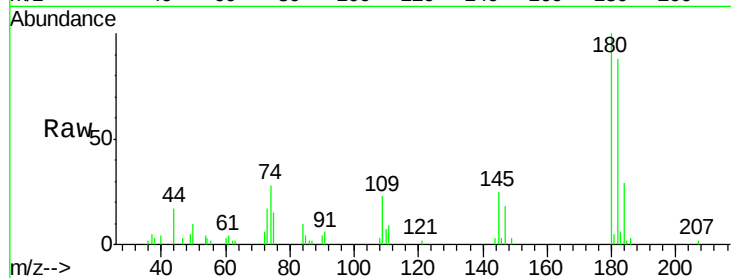




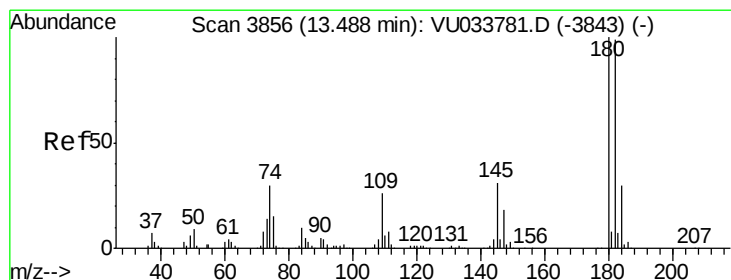
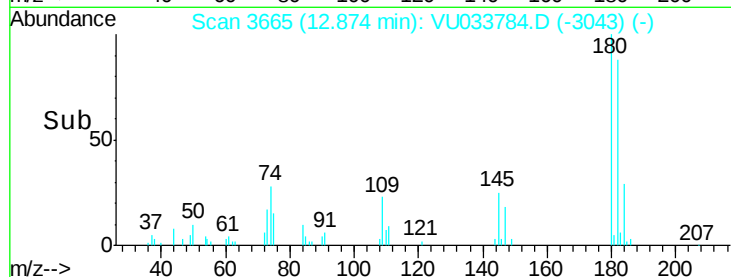
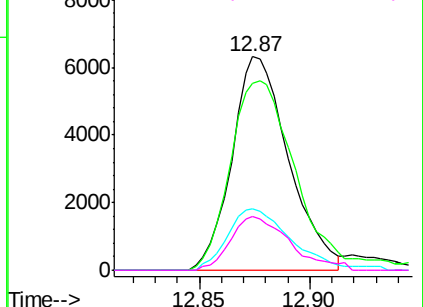
#69
 1,3,5-Trichlorobenzene
 Concen: 2.376 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL03

Tot Ion:180	Resp:	11280
Ion	Ratio	Lower Upper
180	100	
182	99.7	77.2 115.8
184	31.9	24.5 36.7
145	25.9	23.4 35.0

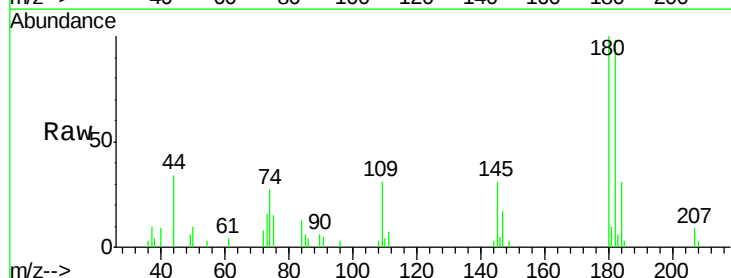


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

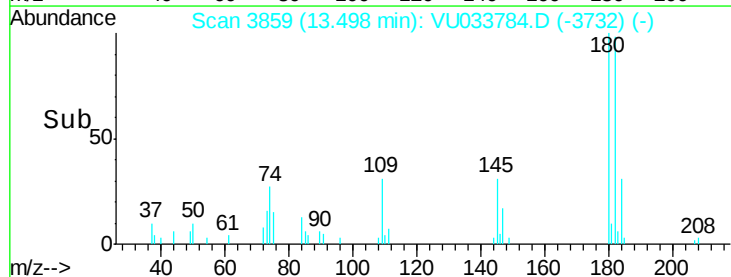
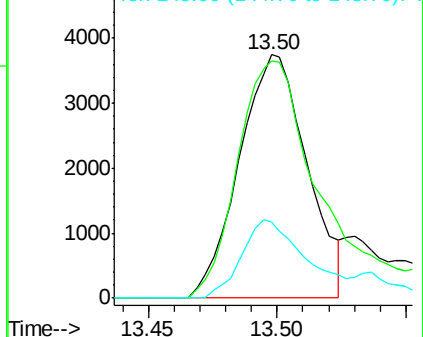


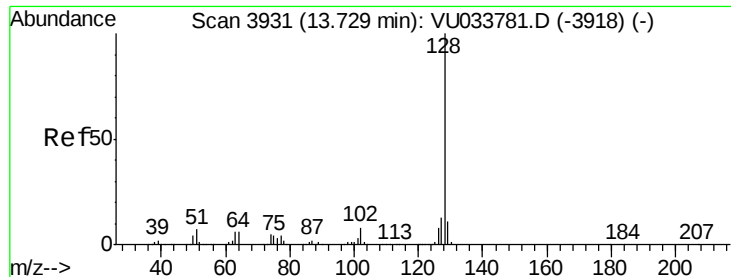
#70
 1,2,4-trichlorobenzene
 Concen: 1.744 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033784.D
 Acq: 13 Aug 2019 16:23

Tgt Ion:180	Resp:	6866
Ion	Ratio	Lower Upper
180	100	
182	117.0	75.3 112.9#
145	30.5	23.3 34.9



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





#71

Naphthalene

Concen: 1.686 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

MDL03

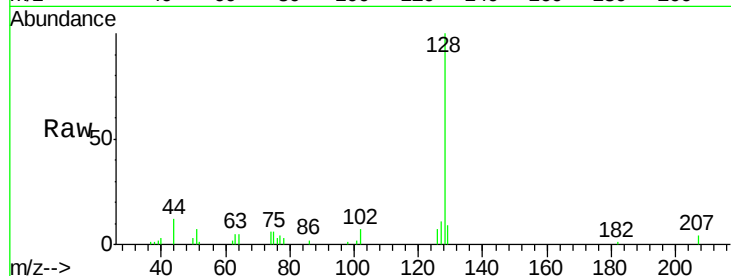
Tot Ion:128 Resp: 19756

Ion Ratio Lower Upper

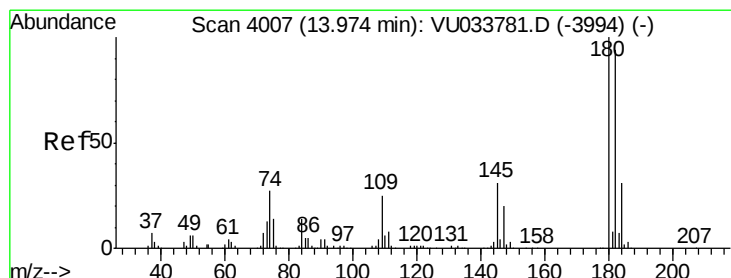
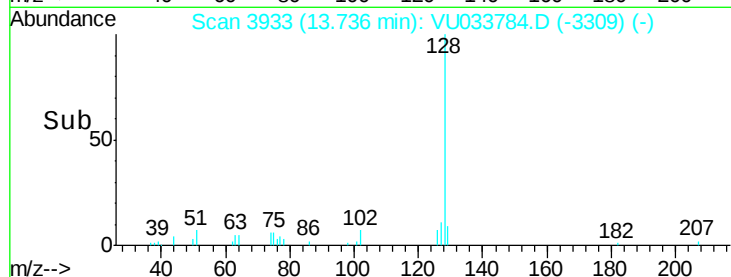
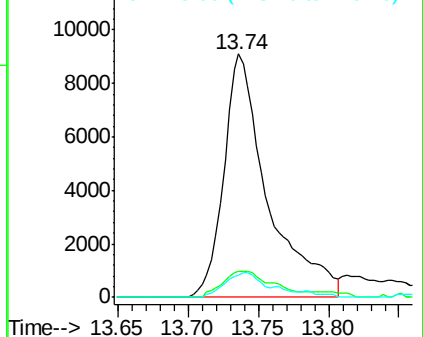
128 100

127 12.1 11.0 16.4

129 8.1 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 2.237 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.01 min

Lab File: VU033784.D

Acq: 13 Aug 2019 16:23

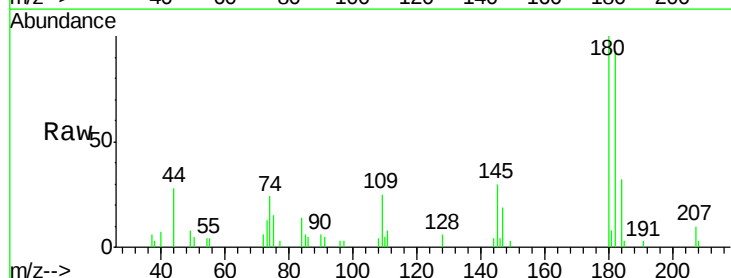
Tgt Ion:180 Resp: 9231

Ion Ratio Lower Upper

180 100

182 87.6 77.1 115.7

145 28.3 24.6 36.8



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

