

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080519\
 Data File : VU033592.D
 Acq On : 05 Aug 2019 11:19
 Operator : JC/SP
 Sample : VSTD01033
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 05 16:55:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 16:26:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	326395	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	316511	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	164173	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	19277	8.49	ug/L	0.00
7) Chloroethane-d5	1.67	69	17724	7.49	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	37204	8.62	ug/L	0.00
21) 2-Butanone-d5	4.16	46	31396	17.66	ug/L	0.01
24) Chloroform-d	4.62	84	37318	8.83	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	23578	8.85	ug/L	0.00
32) Benzene-d6	5.32	84	72745	8.87	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	23590	8.91	ug/L	0.00
41) Toluene-d8	7.55	98	64397	8.45	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	11739	9.10	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	20630	16.23	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	35021	8.60	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	27786	8.80	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	26834	8.598	ug/L 100
3) Chloromethane	1.32	50	29561	9.123	ug/L 99
5) Vinyl chloride	1.40	62	32078	9.345	ug/L 97
6) Bromomethane	1.62	94	22434	9.215	ug/L 99
8) Chloroethane	1.69	64	21089	8.250	ug/L 95
9) Trichlorofluoromethane	1.87	101	42193	9.099	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	21450	9.168	ug/L 97
12) 1,1-Dichloroethene	2.27	96	20249	9.009	ug/L 97
13) Acetone	2.32	43	35152	20.174	ug/L 98
14) Carbon disulfide	2.46	76	64263	9.604	ug/L 99
15) Methyl Acetate	2.60	43	26151	9.005	ug/L 100
16) Methylene chloride	2.68	84	24567	9.435	ug/L 99
17) trans-1,2-Dichloroethene	2.96	96	22249	9.501	ug/L 99
18) Methyl tert-butyl Ether	2.98	73	65221	8.874	ug/L 99
19) 1,1-Dichloroethane	3.42	63	41115	9.154	ug/L 96
20) cis-1,2-Dichloroethene	4.20	96	22759	8.582	ug/L 97
22) 2-Butanone	4.25	43	38739	18.097	ug/L 98
23) Bromochloromethane	4.53	128	12940	9.545	ug/L 94
25) Chloroform	4.65	83	42711	9.055	ug/L 97
27) 1,2-Dichloroethane	5.38	62	32772	9.030	ug/L 97
29) Cyclohexane	4.97	56	32817	8.954	ug/L 100
30) 1,1,1-Trichloroethane	4.89	97	35581	9.186	ug/L 99
31) Carbon tetrachloride	5.11	117	30840	9.144	ug/L 99
33) Benzene	5.37	78	90831	9.389	ug/L 100
34) Trichloroethene	6.17	95	23190	9.104	ug/L 97
35) Methylcyclohexane	6.40	83	33961	8.782	ug/L 96
37) 1,2-Dichloropropane	6.41	63	25189	9.514	ug/L # 95
38) Bromodichloromethane	6.74	83	30990	9.034	ug/L 98
39) cis-1,3-Dichloropropene	7.25	75	36086	8.909	ug/L 100
40) 4-Methyl-2-pentanone	7.44	43	68775	17.974	ug/L 97

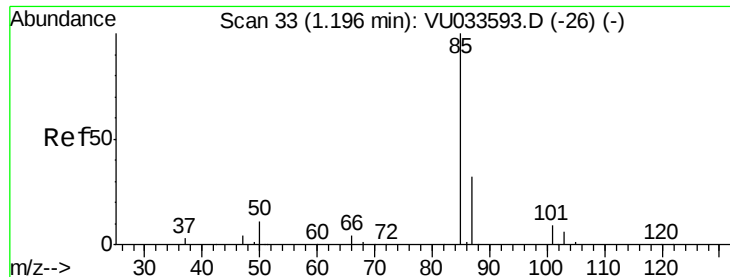
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080519\
 Data File : VU033592.D
 Acq On : 05 Aug 2019 11:19
 Operator : JC/SP
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 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 16:26:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	94119	8.990	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	32869	8.886	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	22963	9.070	ug/L	99
46) Tetrachloroethene	8.21	164	19287	9.399	ug/L	95
48) 2-Hexanone	8.35	43	54182	17.580	ug/L	98
49) Dibromochloromethane	8.46	129	25348	8.875	ug/L	97
50) 1,2-Dibromoethane	8.57	107	24699	8.997	ug/L	97
51) Chlorobenzene	9.10	112	63390	9.259	ug/L	98
52) Ethylbenzene	9.23	91	100090	8.975	ug/L	100
53) m,p-Xylene	9.36	106	37928	8.929	ug/L	93
54) o-xylene	9.76	106	36704	8.766	ug/L	94
55) Styrene	9.78	104	61950	8.725	ug/L	97
56) Isopropylbenzene	10.15	105	93844	8.654	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	41312	9.115	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	32596	9.121	ug/L	99
61) Bromoform	9.94	173	19083	8.837	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	49632	9.141	ug/L	97
63) 1,4-Dichlorobenzene	11.49	146	51432	9.250	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	49862	9.178	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	8916	8.558	ug/L	99
67) 1,3,5-Trichlorobenzene	12.87	180	38052	9.077	ug/L	97
68) 1,2,4-trichlorobenzene	13.49	180	29556	8.384	ug/L	97
69) Naphthalene	13.73	128	79687	7.782	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	32781	8.700	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 8.598 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

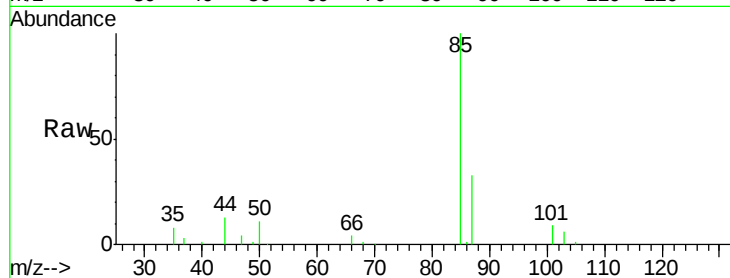
ClientSampleId :

Tot Ion: 85 Resp: 26834

Ion Ratio Lower Upper

85 100

87 32.2 25.7 38.5

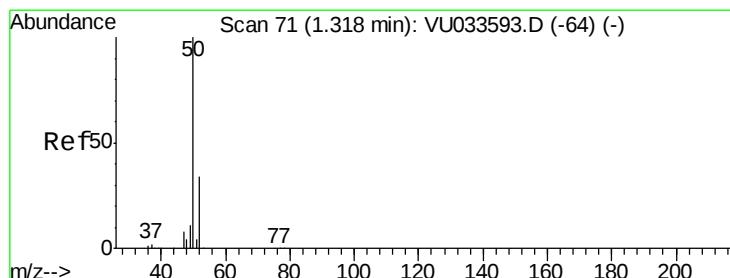
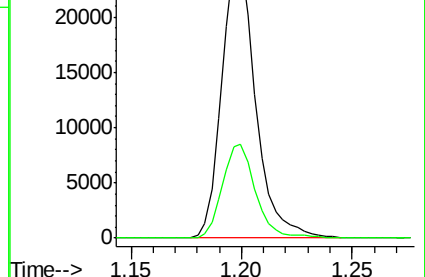
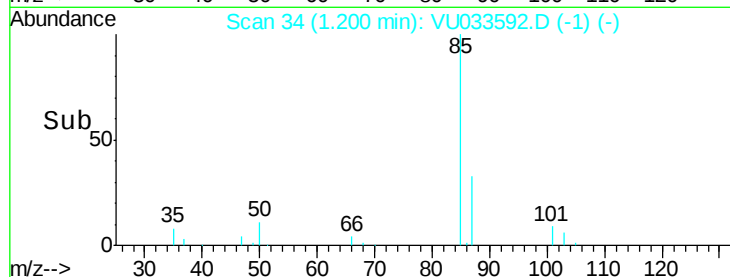


Abundance Ion 85.00 (84.70 to 85.70): VU033592.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033592.D (-1) (-)

1.20

Time-->



#3

Chloromethane

Concen: 9.123 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033592.D

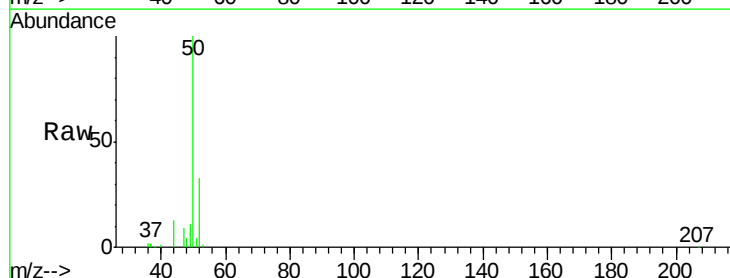
Acq: 05 Aug 2019 11:19

Tgt Ion: 50 Resp: 29561

Ion Ratio Lower Upper

50 100

52 33.1 23.6 43.8

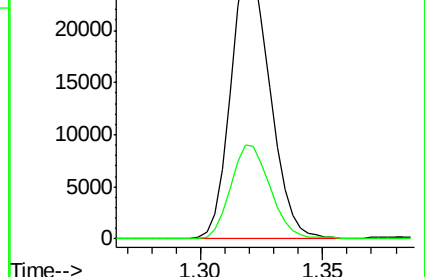
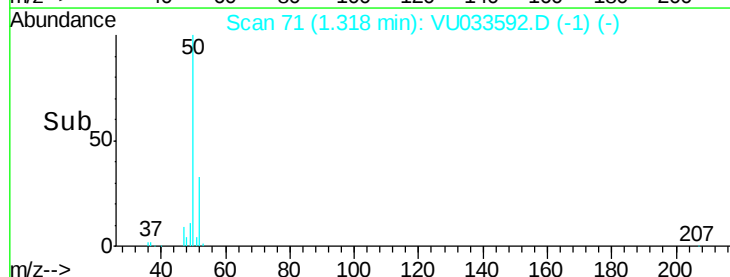


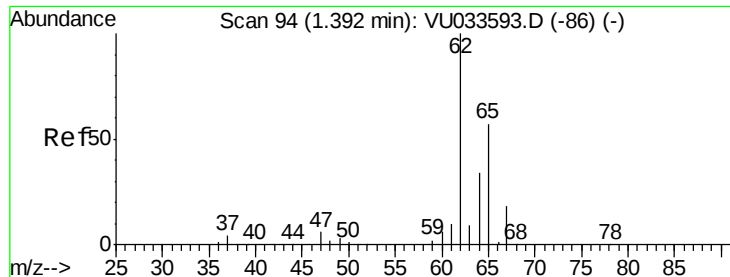
Abundance Ion 50.00 (49.70 to 50.70): VU033592.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033592.D (-1) (-)

1.32

Time-->





#5

Vinyl chloride

Concen: 9.345 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

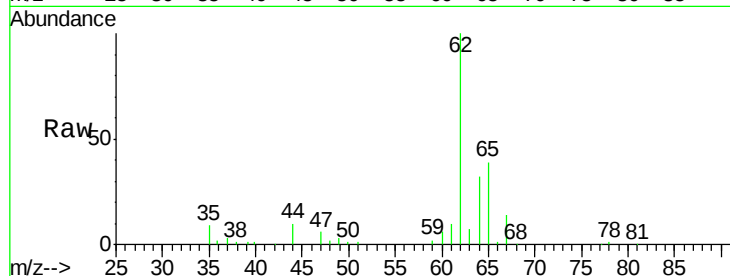
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 32078

Ion Ratio Lower Upper

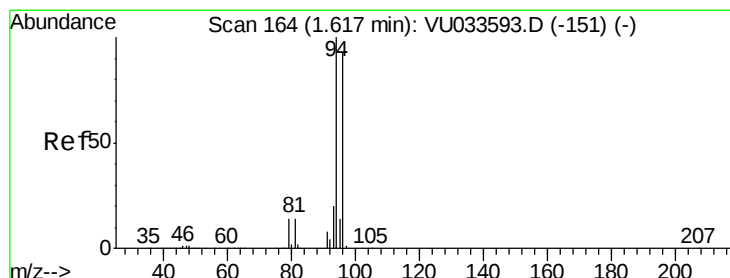
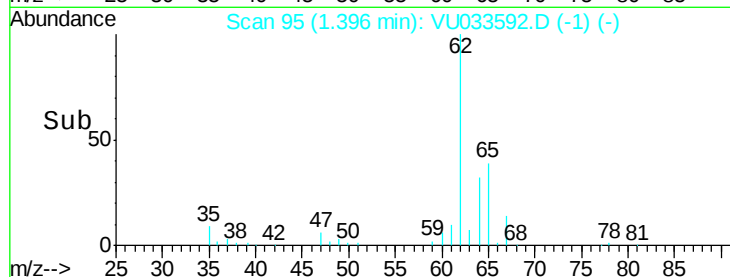
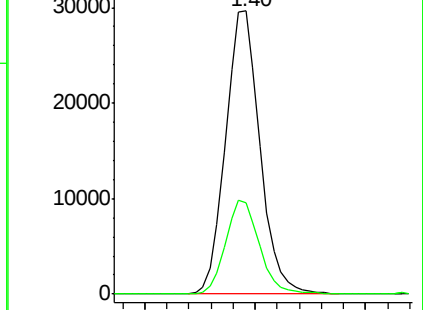
62 100

64 32.3 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU033592.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU033592.D (-1) (-)



#6

Bromomethane

Concen: 9.215 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033592.D

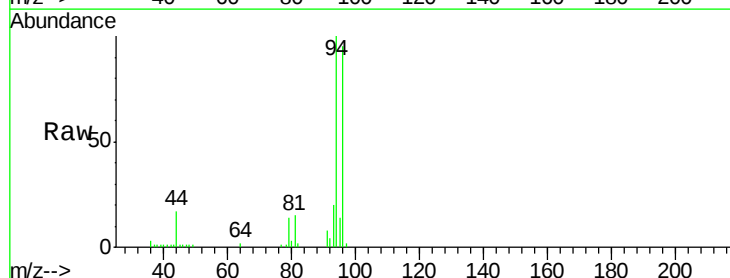
Acq: 05 Aug 2019 11:19

Tgt Ion: 94 Resp: 22434

Ion Ratio Lower Upper

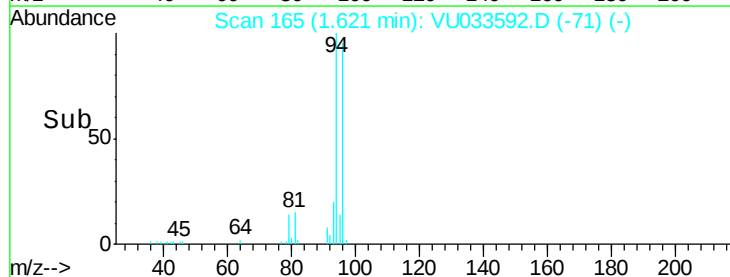
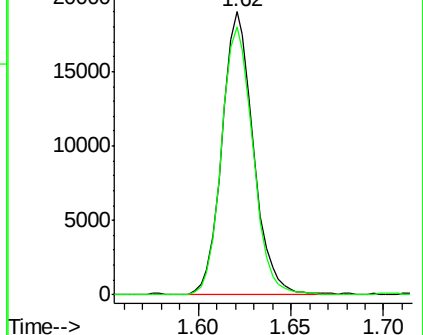
94 100

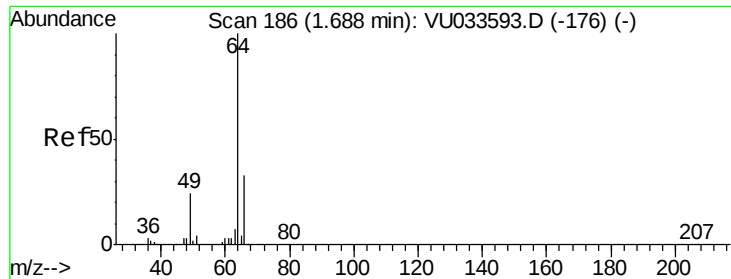
96 94.6 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VU033592.D (-71) (-)

Ion 96.00 (95.70 to 96.70): VU033592.D (-71) (-)





#8

Chloroethane

Concen: 8.250 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

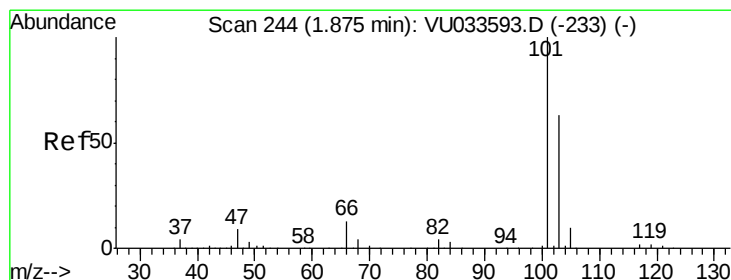
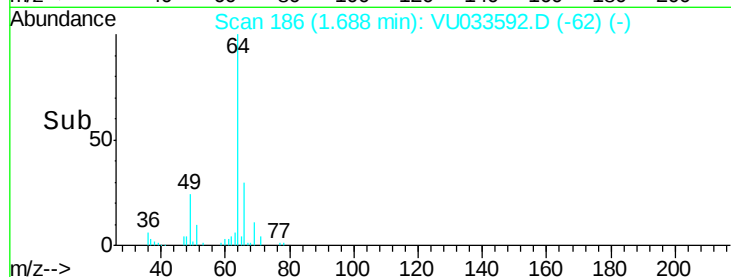
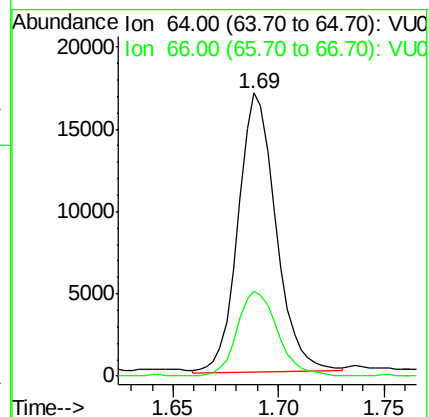
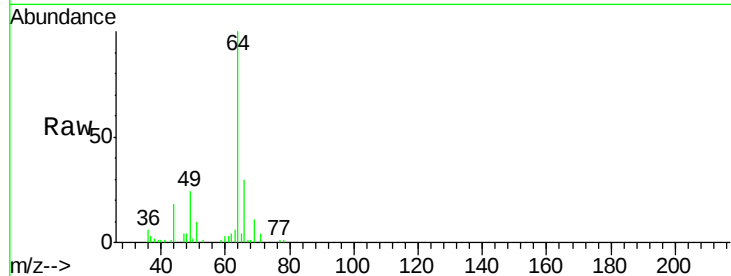
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 21089

Ion Ratio Lower Upper

64 100

66 30.0 22.9 42.5



#9

Trichlorofluoromethane

Concen: 9.099 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033592.D

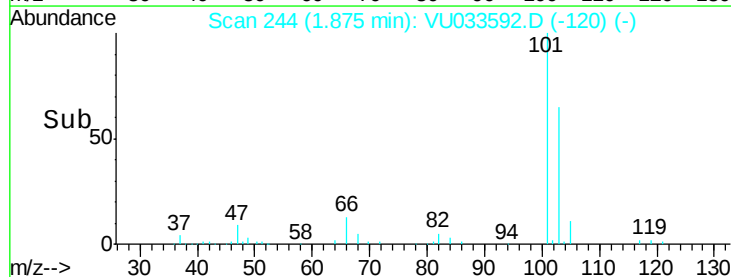
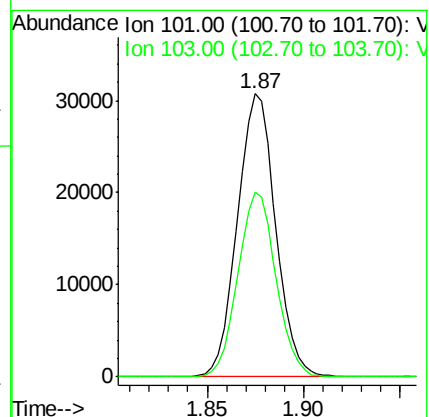
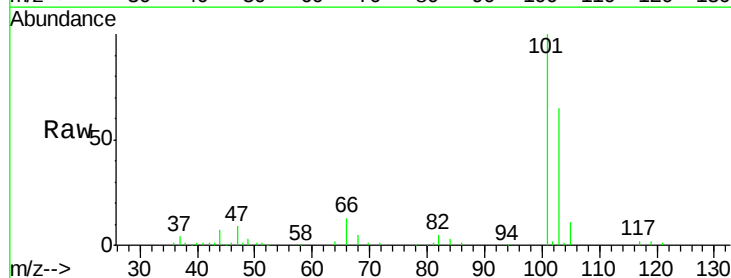
Acq: 05 Aug 2019 11:19

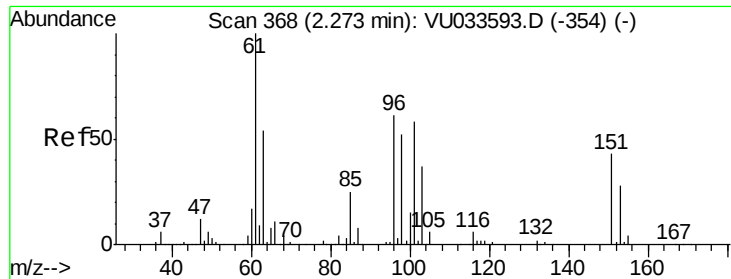
Tgt Ion: 101 Resp: 42193

Ion Ratio Lower Upper

101 100

103 64.8 51.0 76.4





#10

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

Concen: 9.168 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

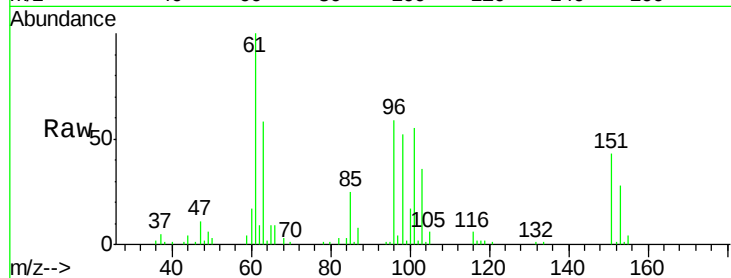
Tot Ion:101 Resp: 21450

Ion Ratio Lower Upper

101 100

85 45.0 34.3 51.5

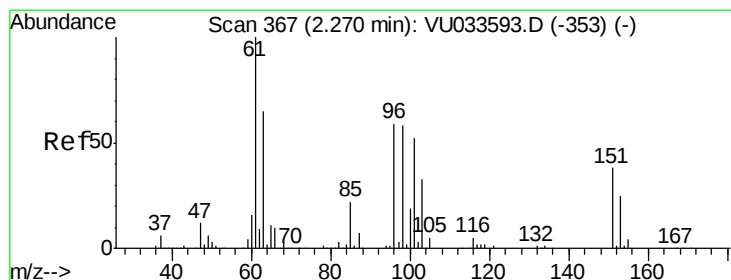
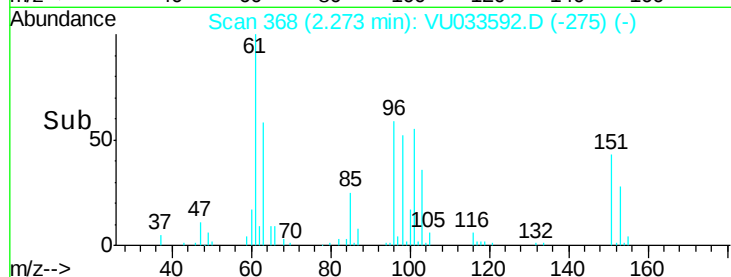
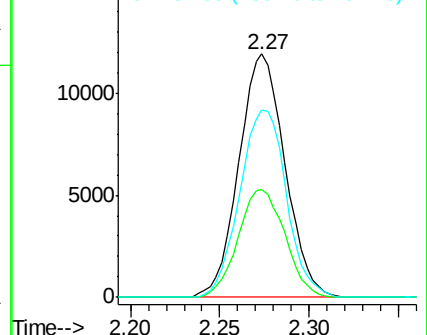
151 78.1 60.2 90.4



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: 9.009 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

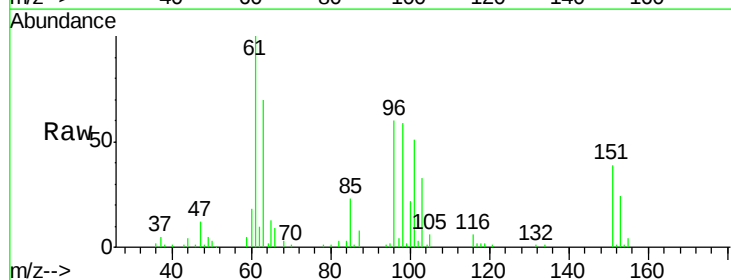
Tgt Ion: 96 Resp: 20249

Ion Ratio Lower Upper

96 100

61 167.2 119.1 221.3

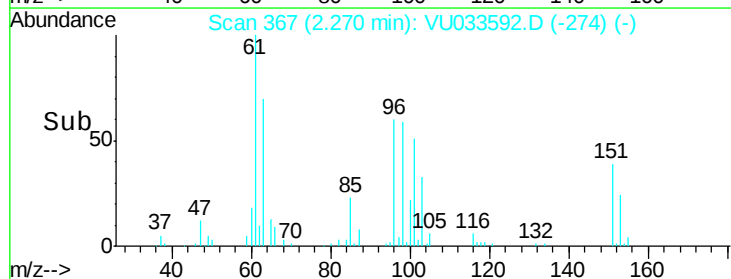
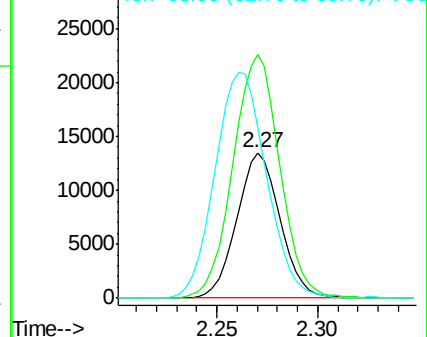
63 117.1 77.9 144.7

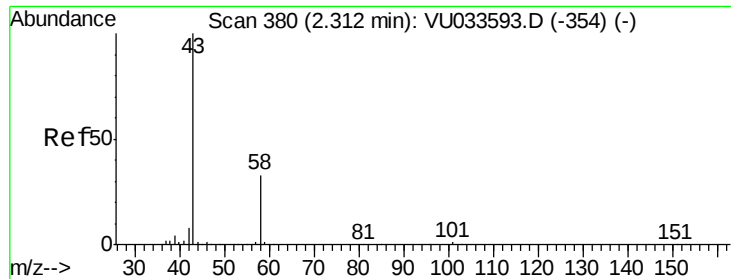


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 20.174 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

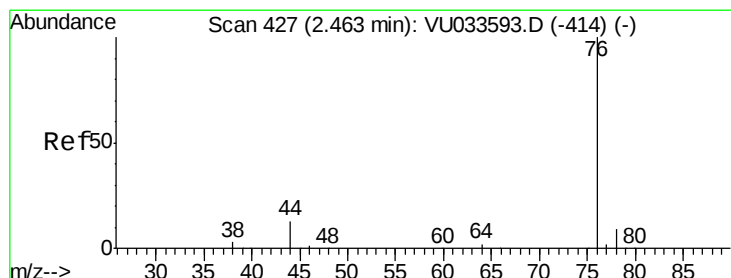
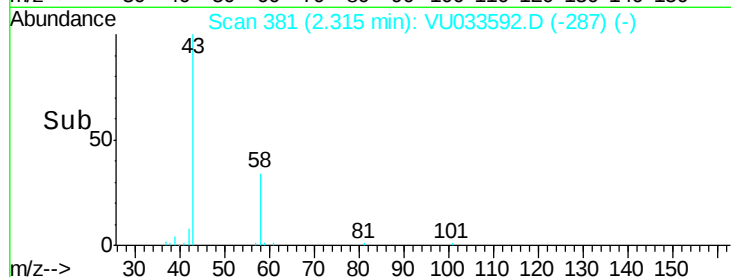
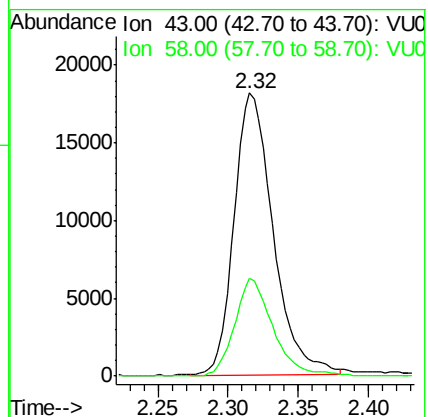
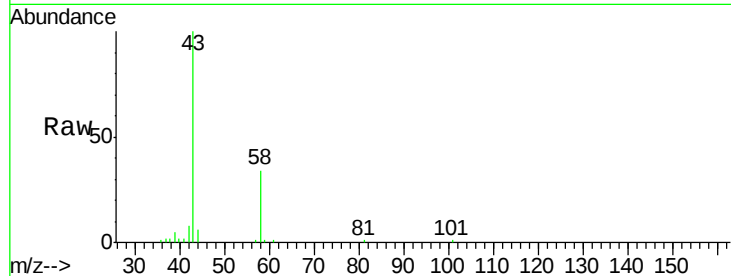
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 35152

Ion Ratio Lower Upper

43 100

58 34.1 0.0 65.4



#14

Carbon disulfide

Concen: 9.604 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033592.D

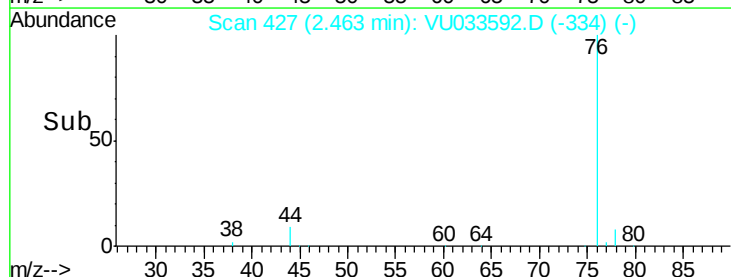
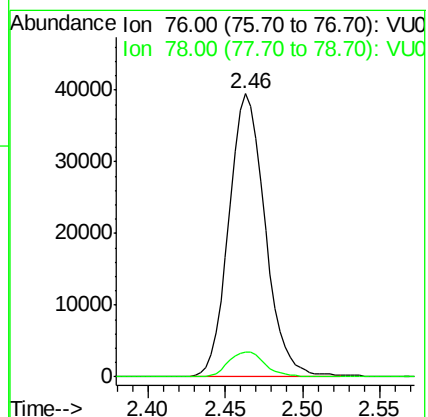
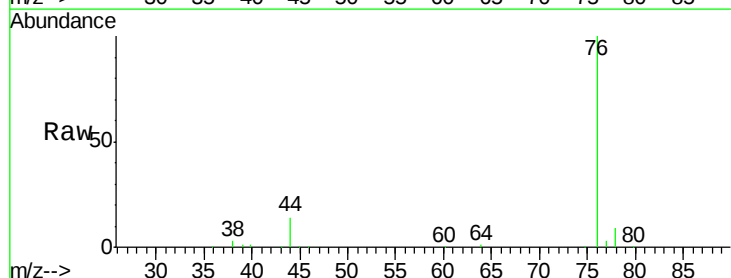
Acq: 05 Aug 2019 11:19

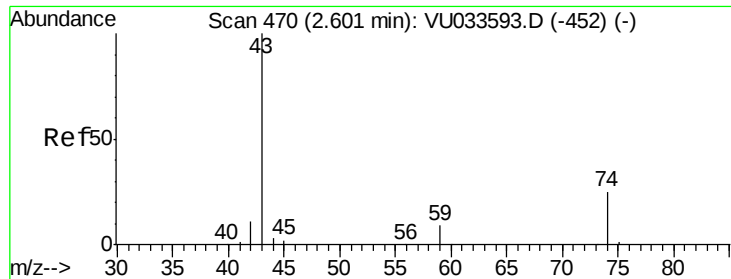
Tgt Ion: 76 Resp: 64263

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.2





#15

Methyl Acetate

Concen: 9.005 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

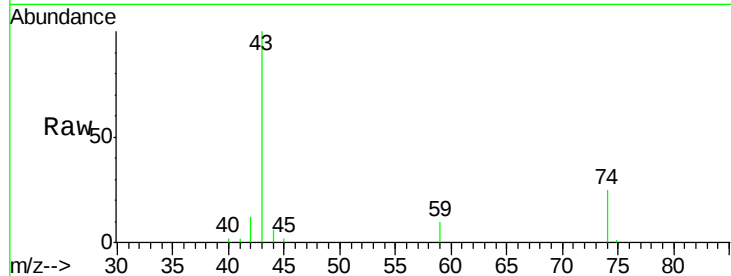
ClientSampled :

Tot Ion: 43 Resp: 26151

Ion Ratio Lower Upper

43 100

74 24.7 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VU033592.D (-377) (-)

Ion 74.00 (73.70 to 74.70): VU033592.D (-377) (-)

2.60

15000

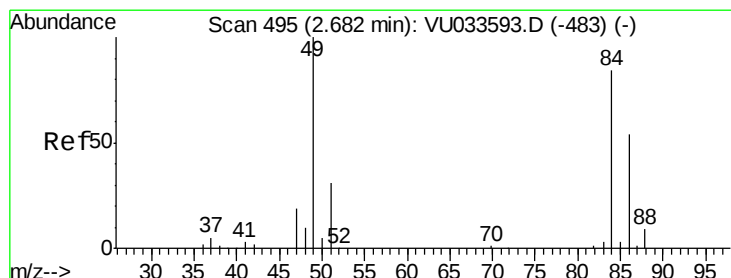
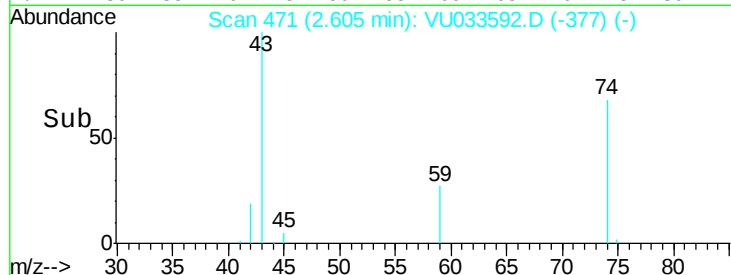
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Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 9.435 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

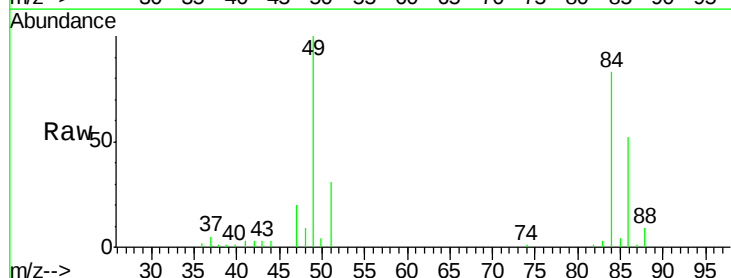
Tgt Ion: 84 Resp: 24567

Ion Ratio Lower Upper

84 100

86 62.7 44.9 83.5

49 119.9 83.4 155.0



Abundance Ion 84.00 (83.70 to 84.70): VU033592.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU033592.D (-402) (-)

Ion 49.00 (48.70 to 49.70): VU033592.D (-402) (-)

2.68

20000

15000

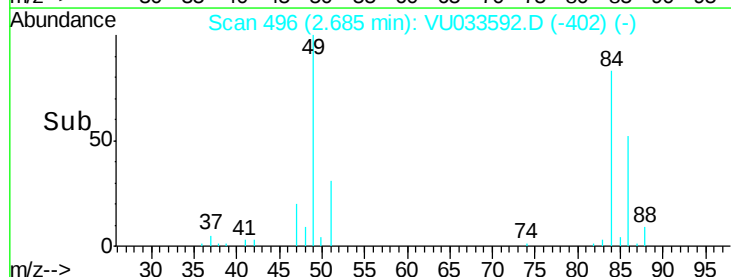
10000

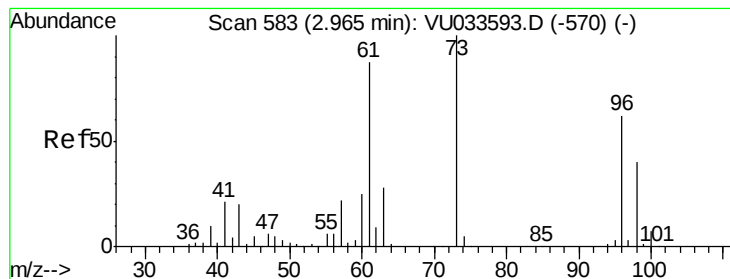
5000

0

Time-->

2.60 2.65 2.70 2.75





#17

trans-1,2-Dichloroethene

Concen: 9.501 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

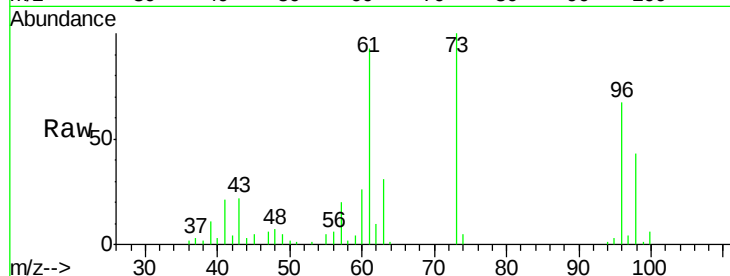
Tot Ion: 96 Resp: 22249

Ion Ratio Lower Upper

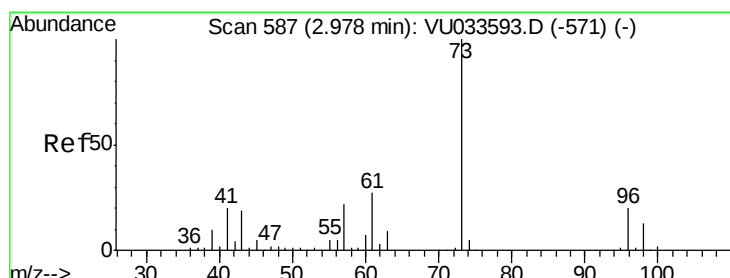
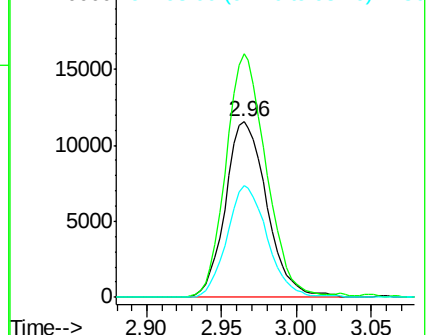
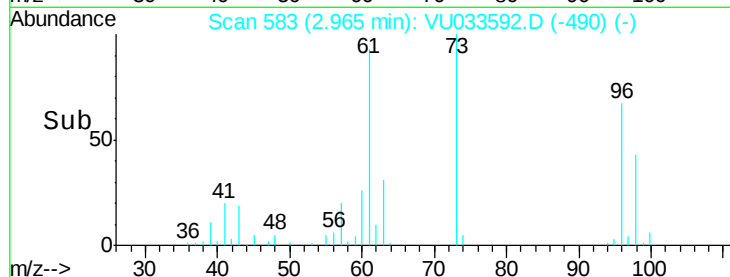
96 100

61 138.9 98.8 183.4

98 63.6 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU033592.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 8.874 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

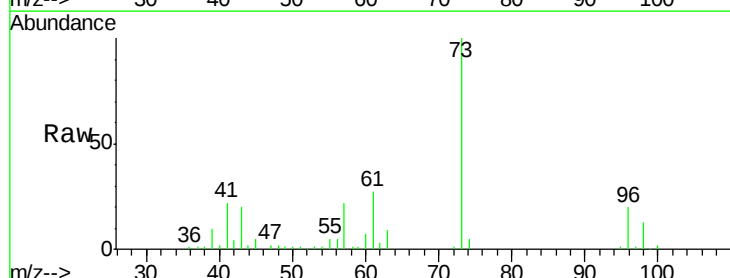
Tgt Ion: 73 Resp: 65221

Ion Ratio Lower Upper

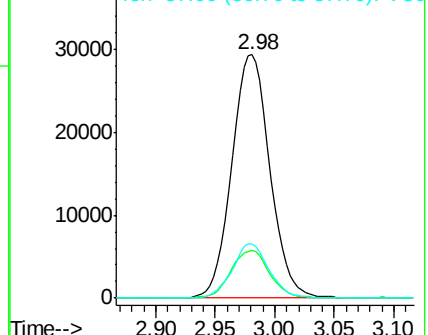
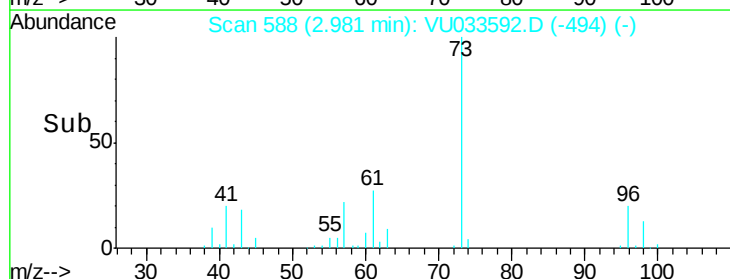
73 100

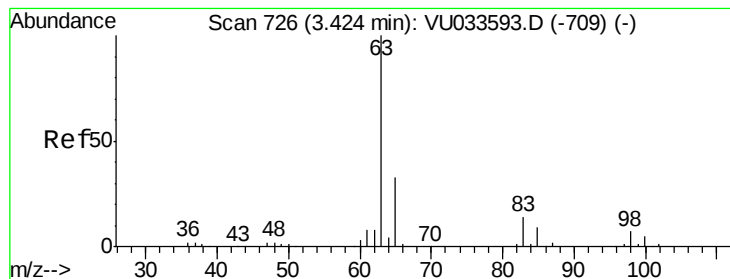
43 19.9 15.8 23.6

57 21.5 17.5 26.3



Abundance Ion 73.00 (72.70 to 73.70): VU033592.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 9.154 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :
MSVOA_U
ClientSampled :

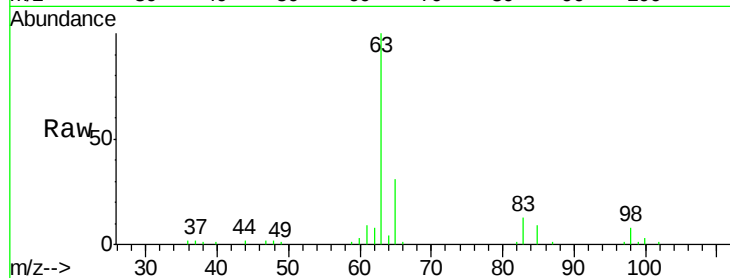
Tot Ion: 63 Resp: 41115

Ion Ratio Lower Upper

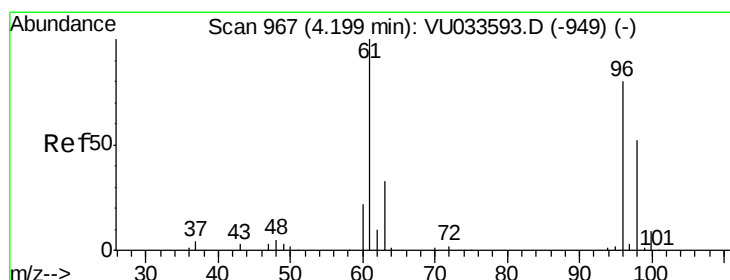
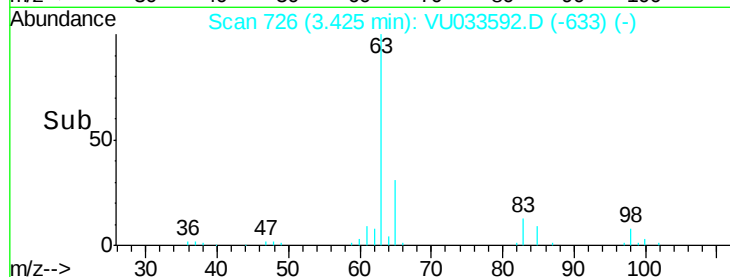
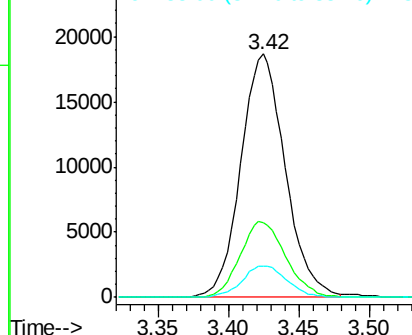
63 100

65 30.6 22.9 42.5

83 12.6 9.8 18.2



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: 8.582 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

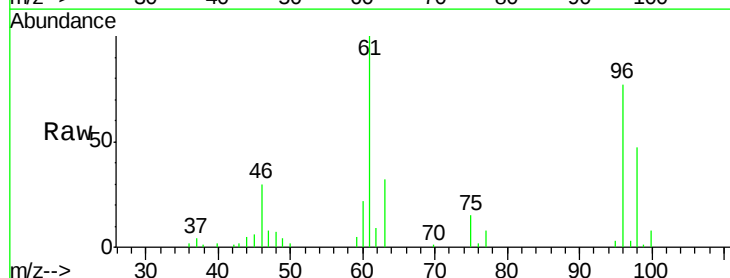
Tgt Ion: 96 Resp: 22759

Ion Ratio Lower Upper

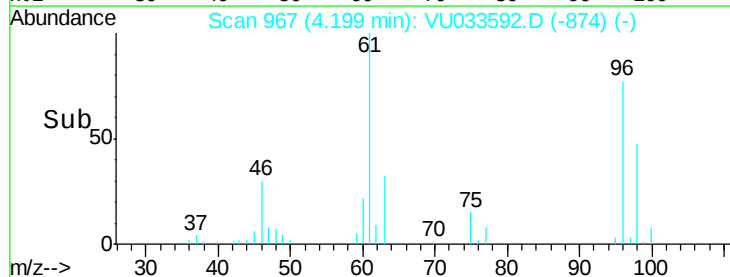
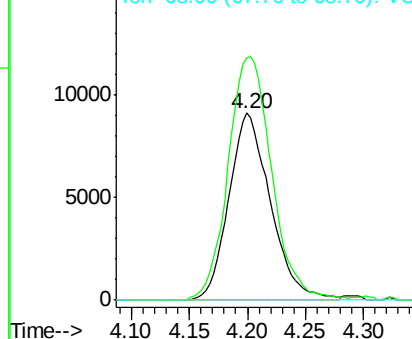
96 100

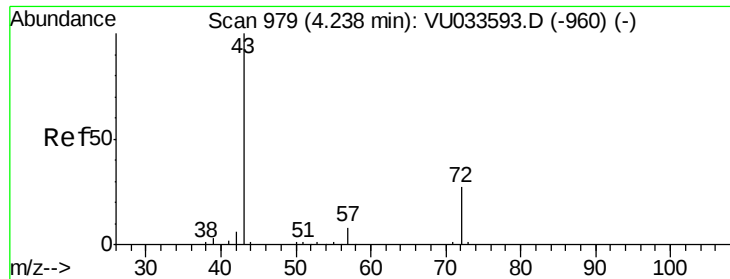
61 130.0 88.2 163.8

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: 18.097 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.01 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

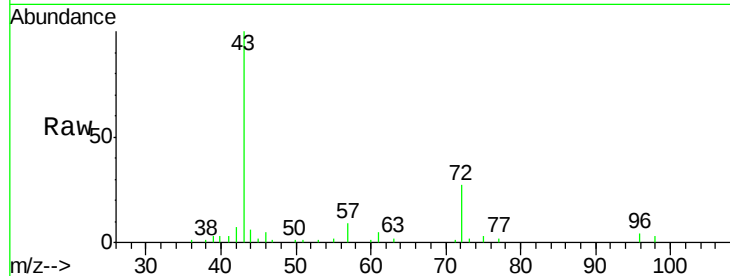
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 38739

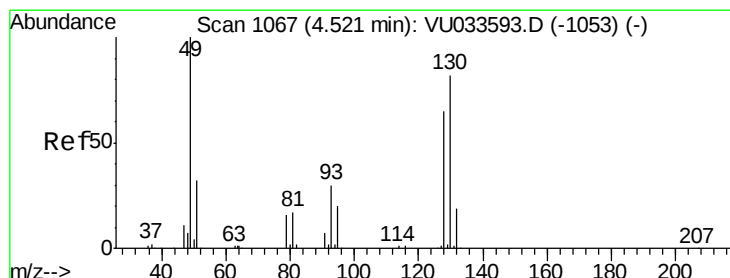
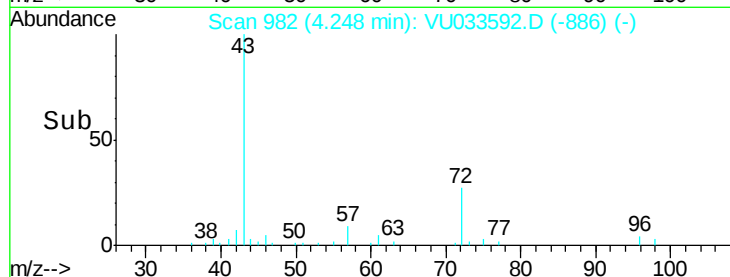
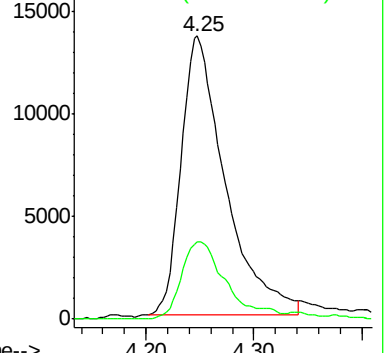
Ion Ratio Lower Upper

43 100

72 26.4 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU033592.D (-886) (-)



#23

Bromochloromethane

Concen: 9.545 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.01 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Tgt Ion: 128 Resp: 12940

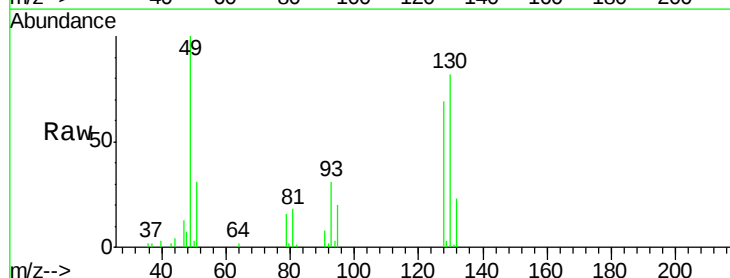
Ion Ratio Lower Upper

128 100

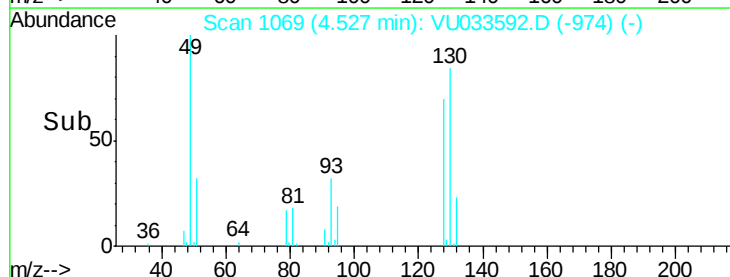
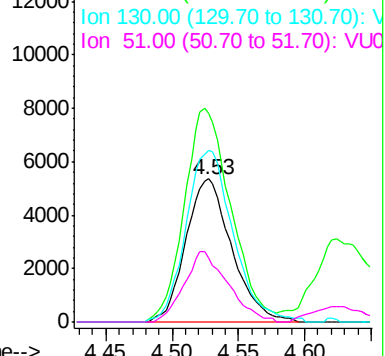
49 145.8 108.1 200.9

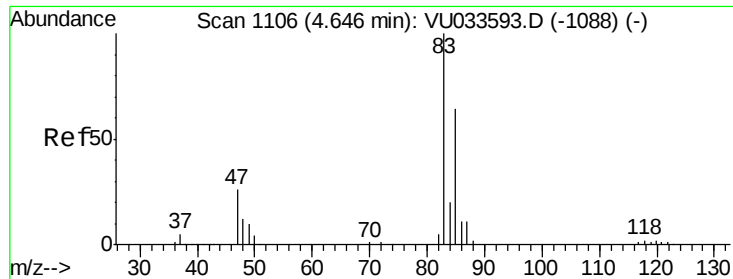
130 119.6 89.0 165.4

51 45.0 38.8 58.2



Abundance Ion 128.00 (127.70 to 128.70): VU033592.D (-974) (-)

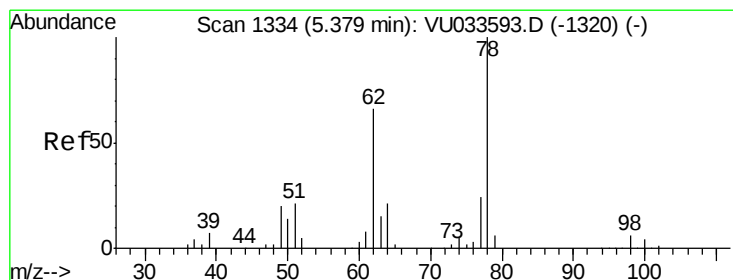
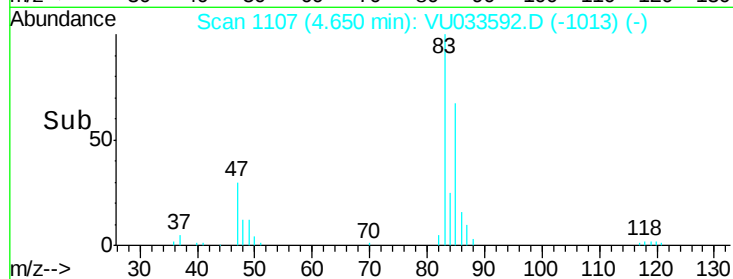
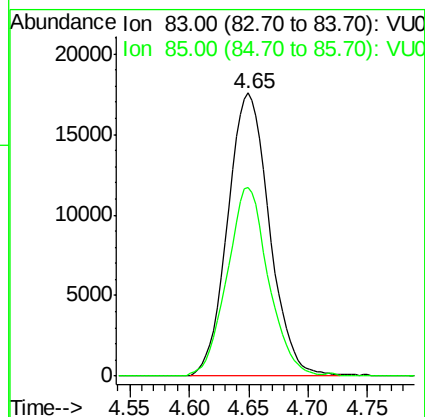
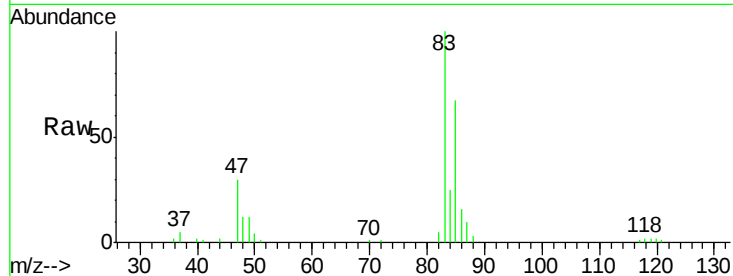




#25
Chloroform
Concen: 9.055 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033592.D
Acq: 05 Aug 2019 11:19

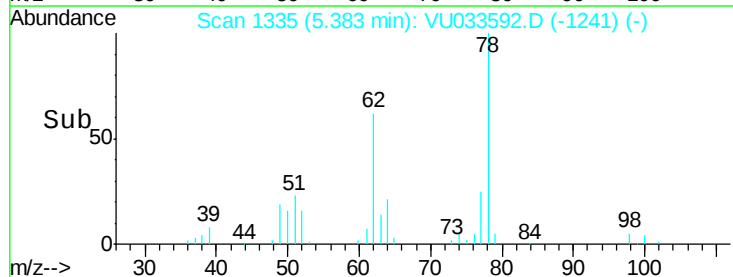
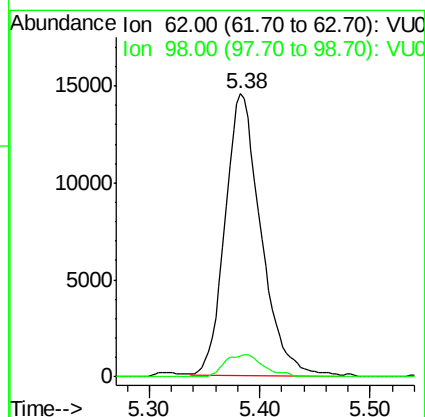
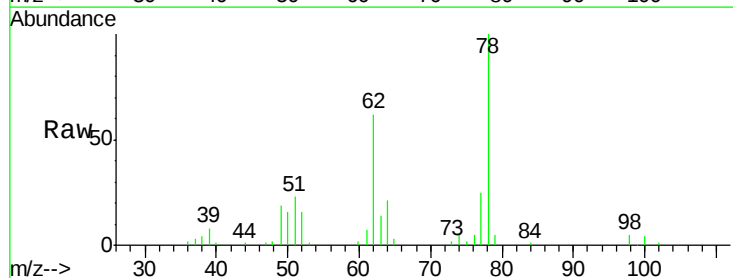
Instrument :
MSVOA_U
ClientSampled :

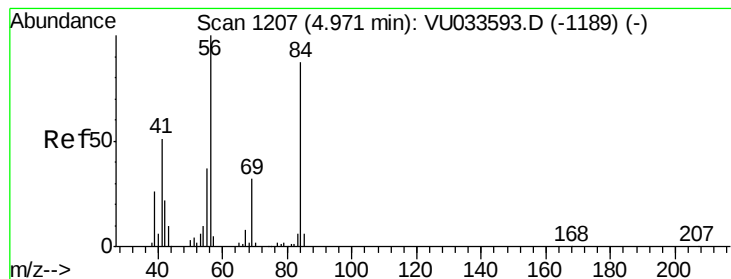
Tot Ion: 83 Resp: 42711
Ion Ratio Lower Upper
83 100
85 66.6 44.9 83.3



#27
1,2-Dichloroethane
Concen: 9.030 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033592.D
Acq: 05 Aug 2019 11:19

Tgt Ion: 62 Resp: 32772
Ion Ratio Lower Upper
62 100
98 7.5 7.0 10.4





#29

Cyclohexane

Concen: 8.954 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :
MSVOA_U
ClientSampleId :

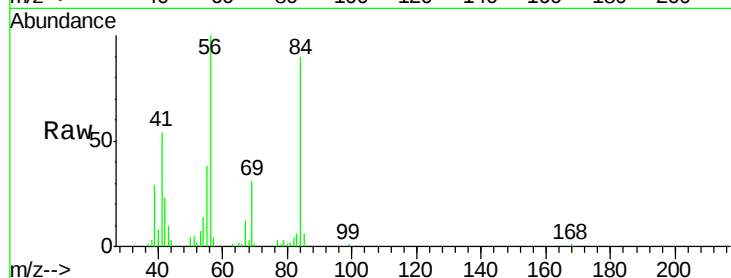
Tot Ion: 56 Resp: 32817

Ion Ratio Lower Upper

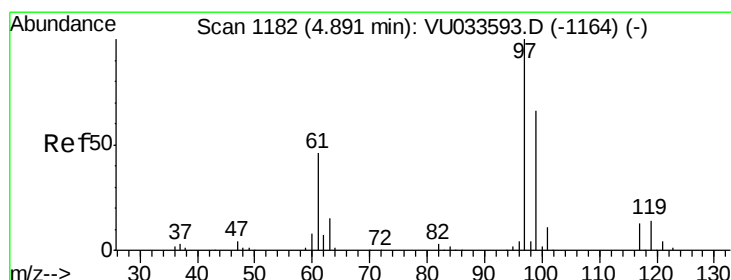
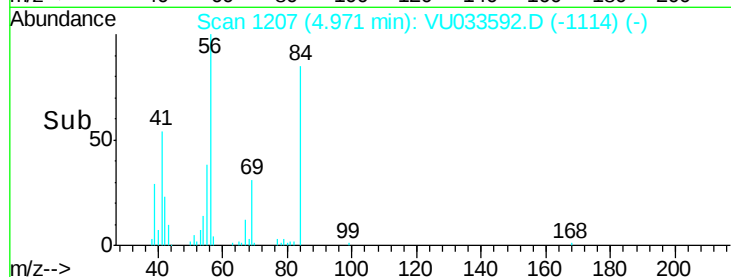
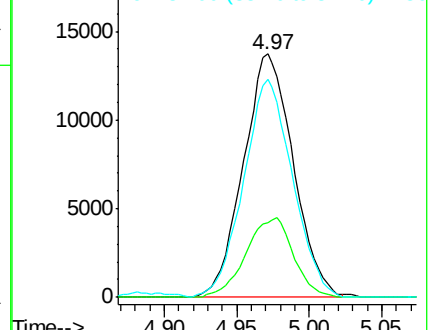
56 100

69 31.1 24.7 37.1

84 87.8 69.8 104.8



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 9.186 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

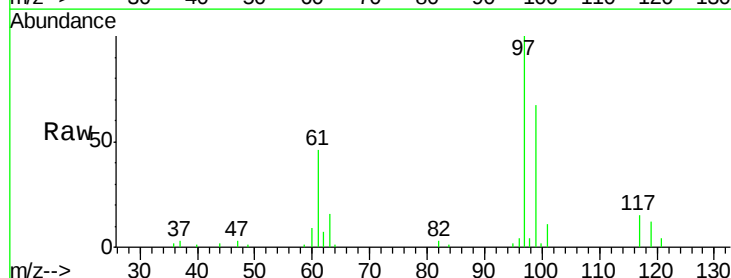
Tgt Ion: 97 Resp: 35581

Ion Ratio Lower Upper

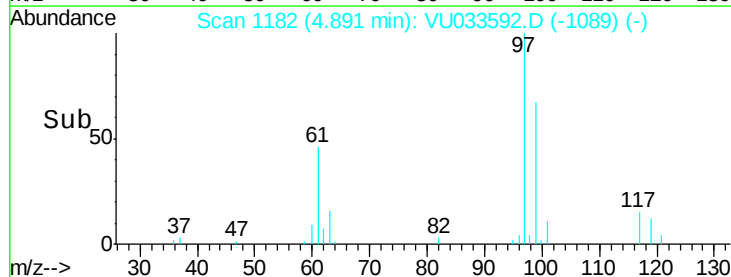
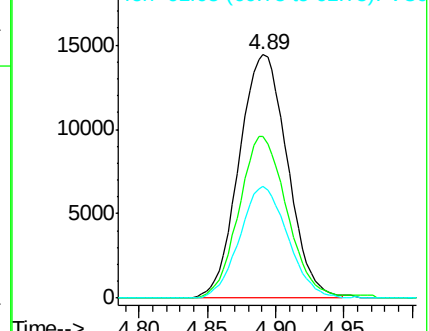
97 100

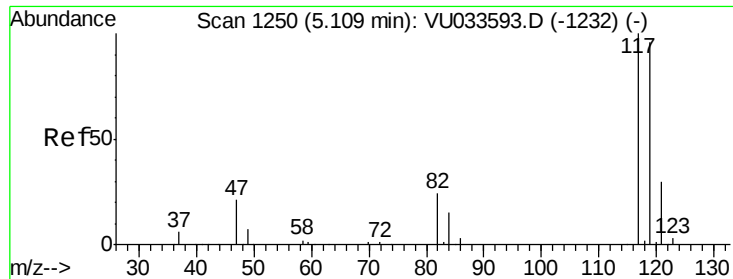
99 65.5 51.8 77.6

61 45.4 36.2 54.2



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 9.144 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

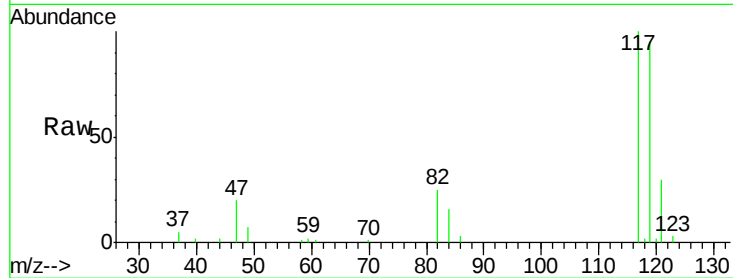
ClientSampleId :

Tot Ion:117 Resp: 30840

Ion Ratio Lower Upper

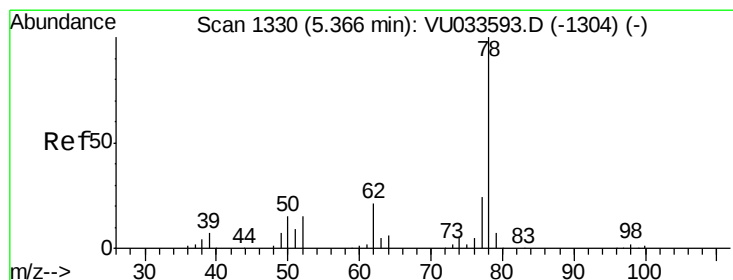
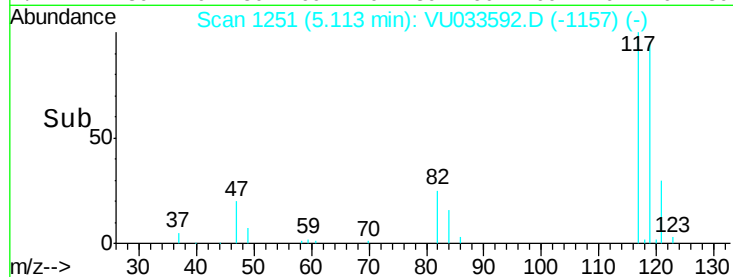
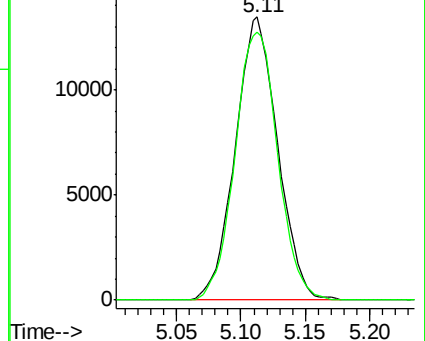
117 100

119 95.4 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 9.389 ug/L

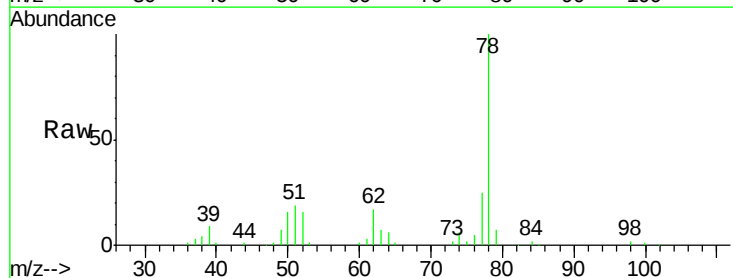
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

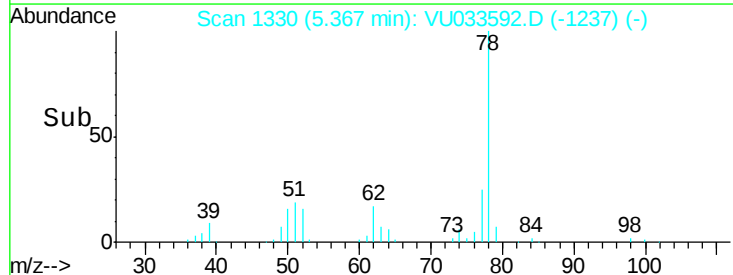
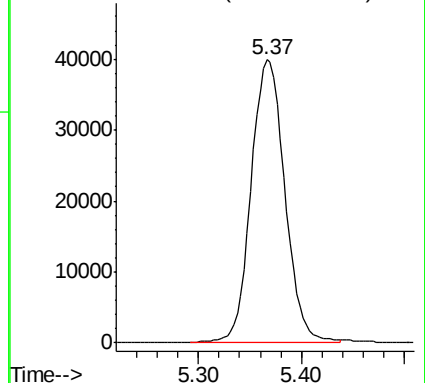
Lab File: VU033592.D

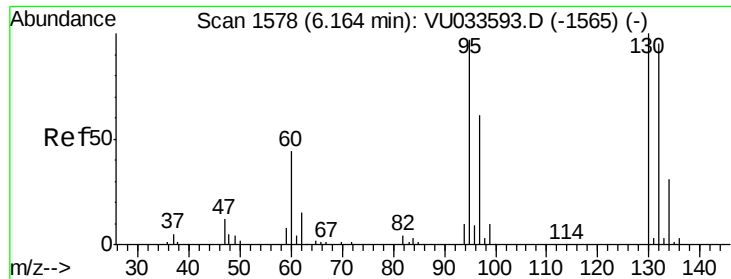
Acq: 05 Aug 2019 11:19

Tgt Ion: 78 Resp: 90831



Abundance Ion 78.00 (77.70 to 78.70): VU0

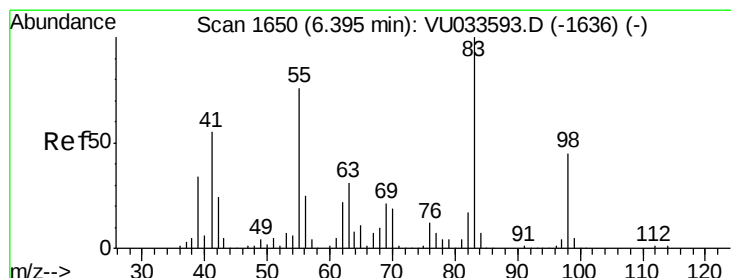
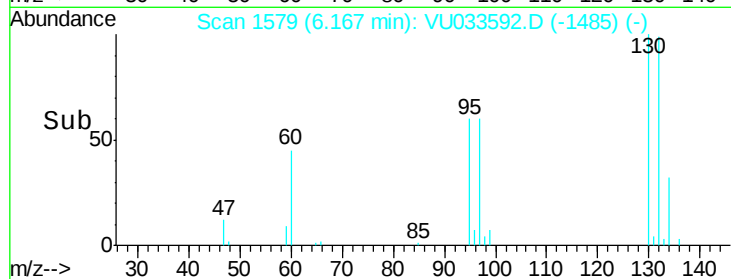
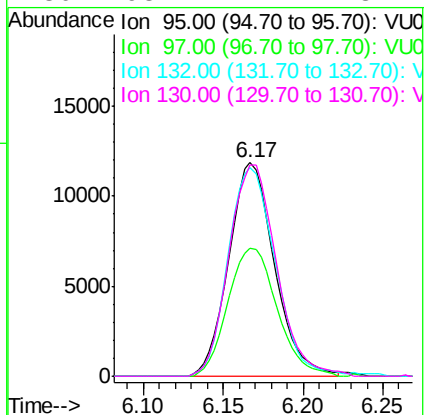
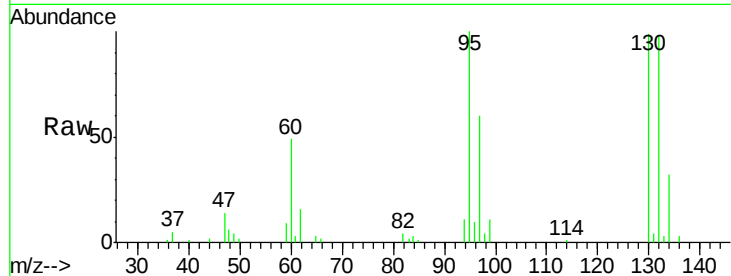




#34
 Trichloroethene
 Concen: 9.104 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

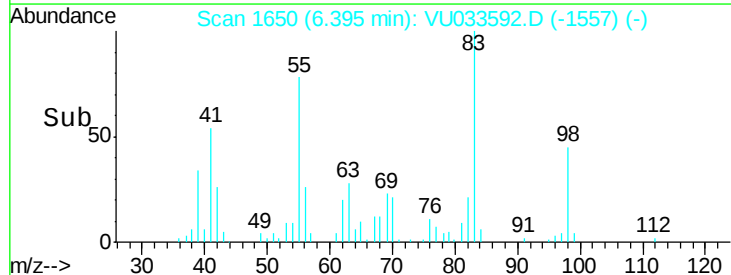
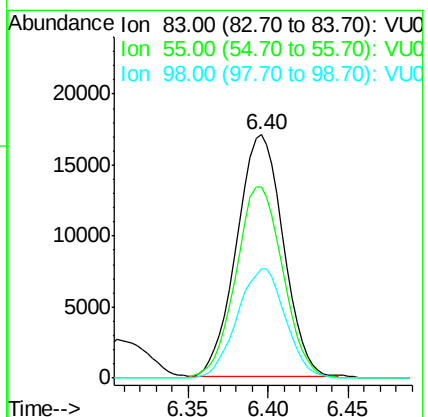
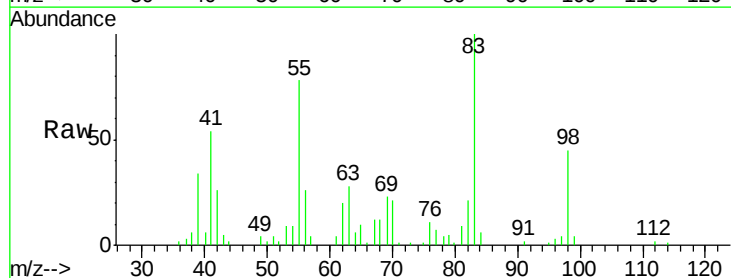
Instrument :
 MSVOA_U
 ClientSampleId :

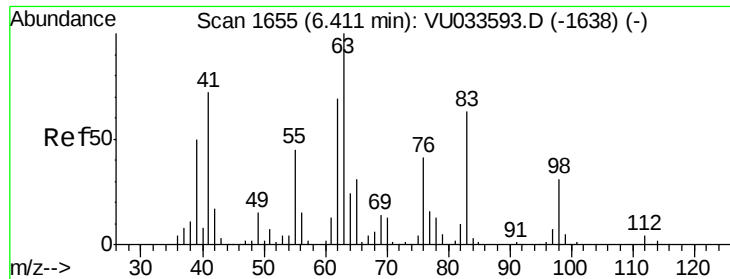
Tot Ion: 95 Resp: 23190
 Ion Ratio Lower Upper
 95 100
 97 59.7 43.8 81.4
 132 98.0 68.6 127.4
 130 98.7 72.2 134.2



#35
 Methylcyclohexane
 Concen: 8.782 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

Tgt Ion: 83 Resp: 33961
 Ion Ratio Lower Upper
 83 100
 55 79.8 60.1 90.1
 98 46.5 36.8 55.2

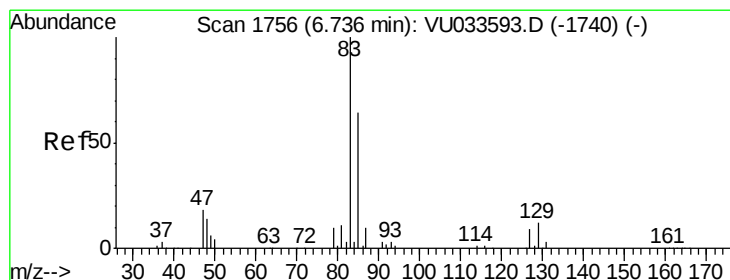
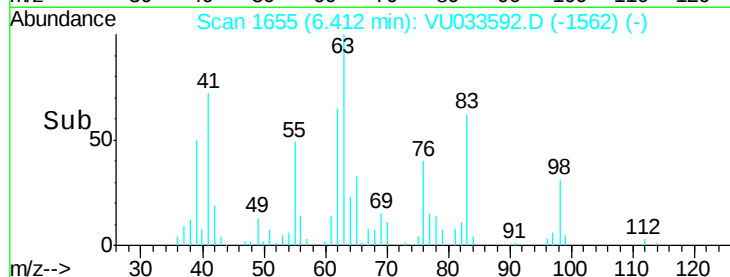
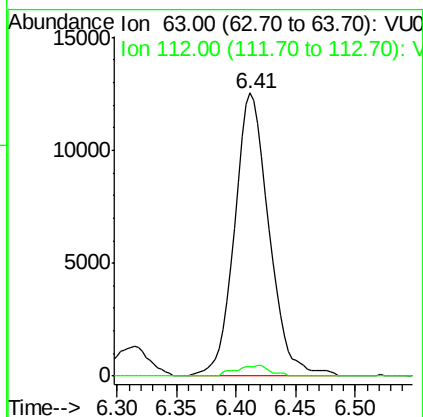
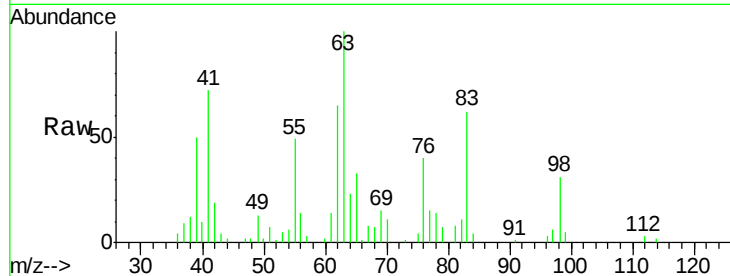




#37
 1,2-Dichloropropane
 Concen: 9.514 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

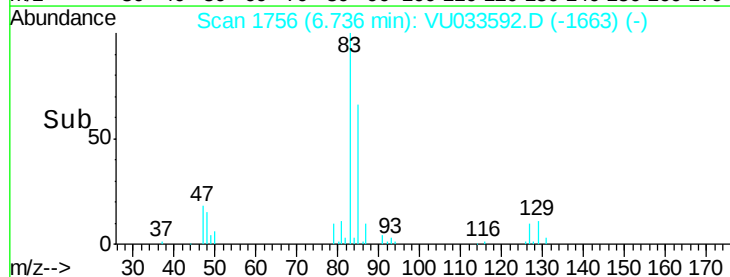
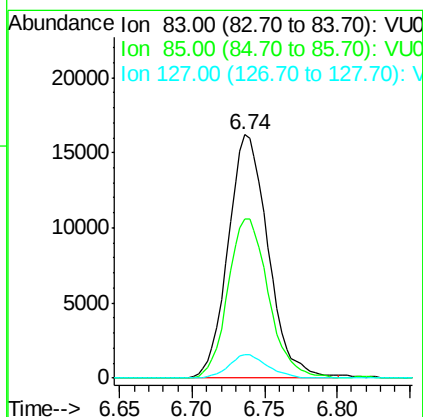
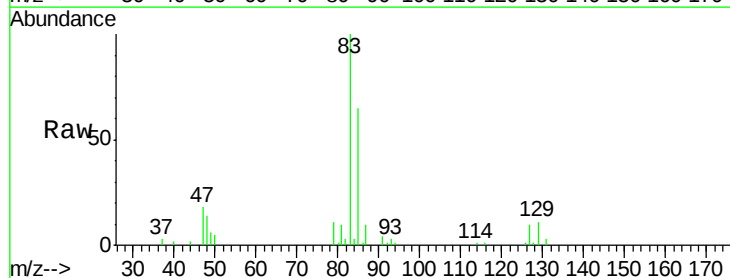
Instrument :
 MSVOA_U
 ClientSampleId :

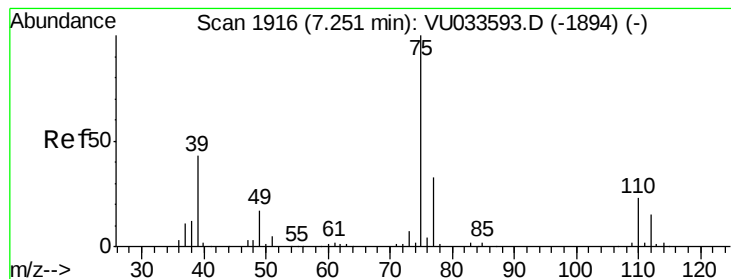
Tot Ion: 63 Resp: 25189
 Ion Ratio Lower Upper
 63 100
 112 2.1 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 9.034 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

Tgt Ion: 83 Resp: 30990
 Ion Ratio Lower Upper
 83 100
 85 65.3 44.9 83.5
 127 9.7 7.0 10.4



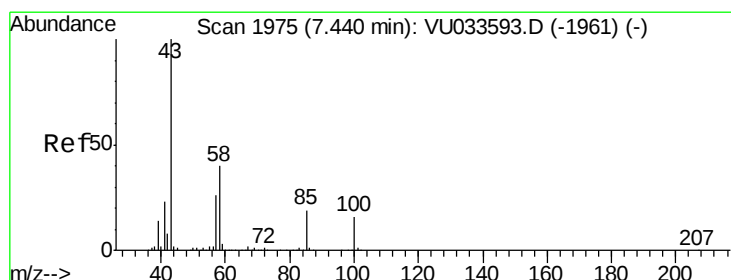
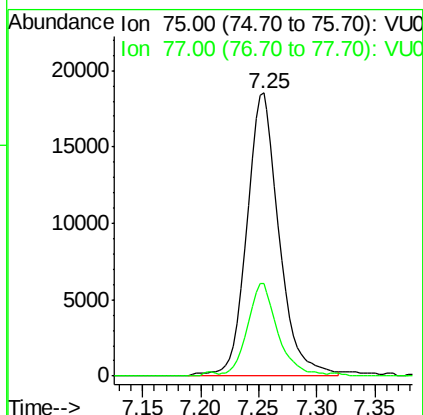
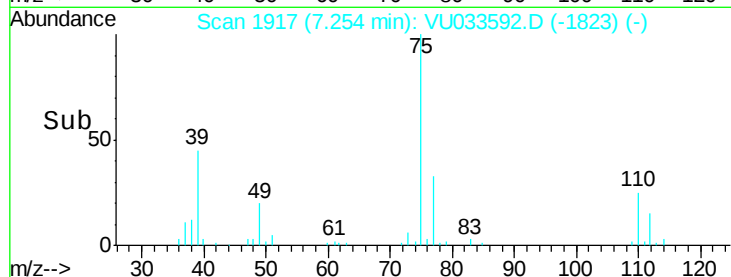
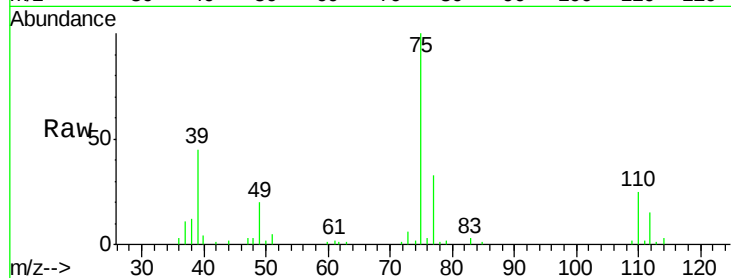


#39

cis-1,3-Dichloropropene
 Concen: 8.909 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

Instrument :
 MSVOA_U
 ClientSampleId :

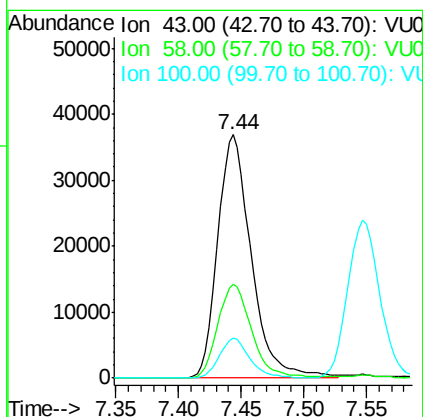
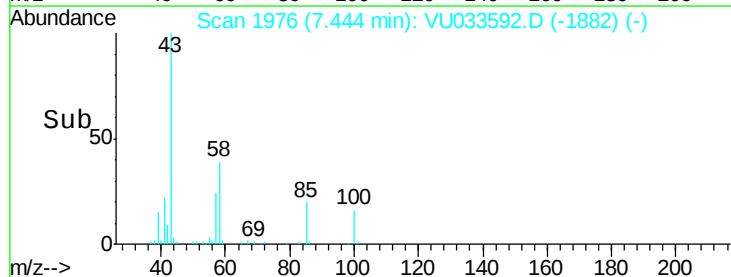
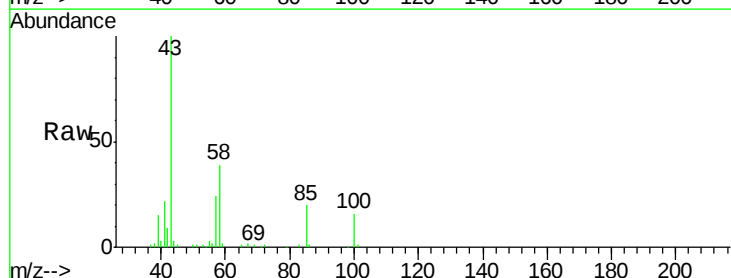
Tot Ion: 75 Resp: 36086
 Ion Ratio Lower Upper
 75 100
 77 32.5 22.7 42.3

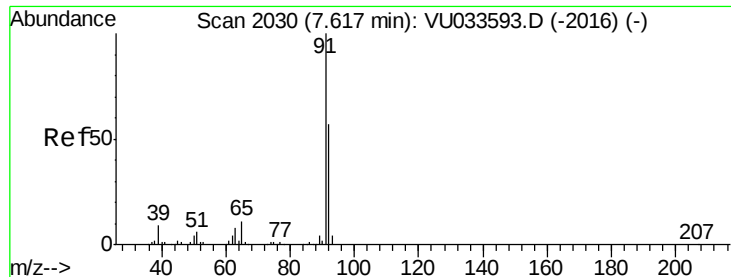


#40

4-Methyl-2-pentanone
 Concen: 17.974 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

Tgt Ion: 43 Resp: 68775
 Ion Ratio Lower Upper
 43 100
 58 38.5 32.5 48.7
 100 14.8 12.6 18.8





#42

Toluene

Concen: 8.990 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

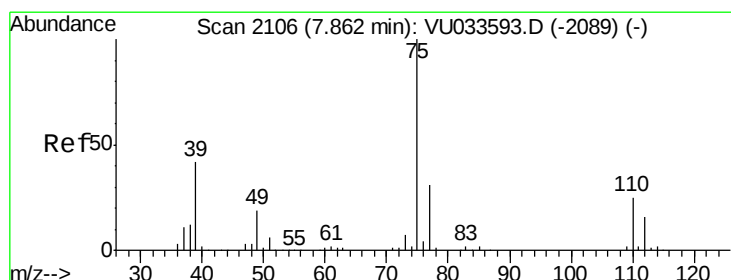
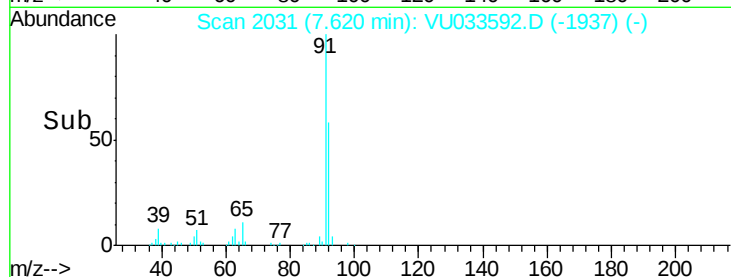
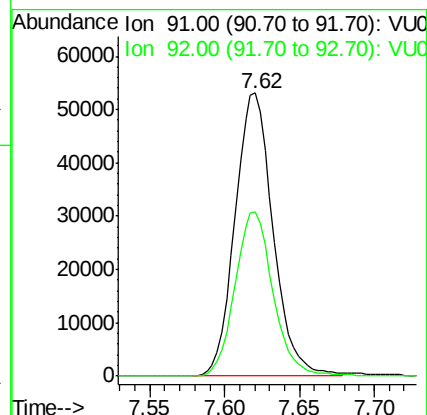
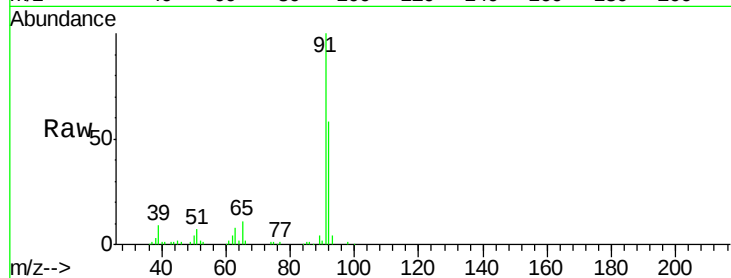
ClientSampled :

Tot Ion: 91 Resp: 94119

Ion Ratio Lower Upper

91 100

92 57.9 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 8.886 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033592.D

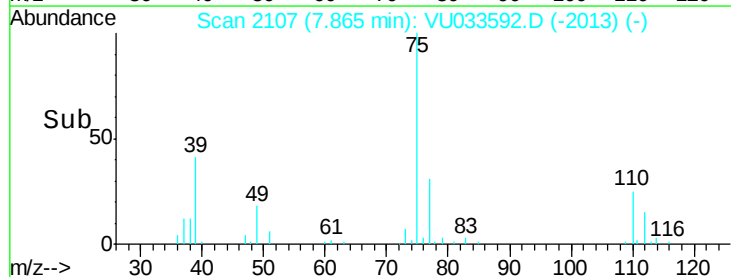
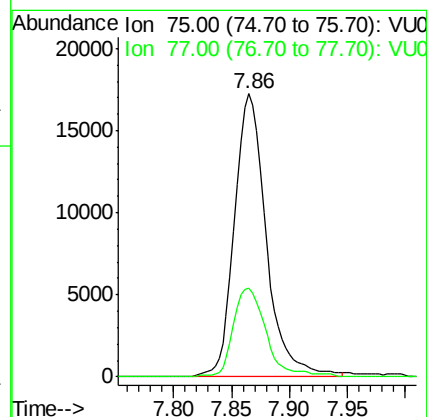
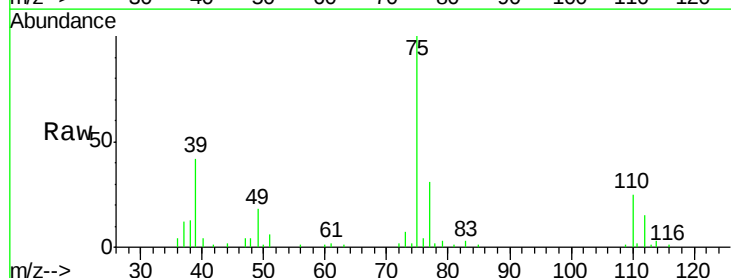
Acq: 05 Aug 2019 11:19

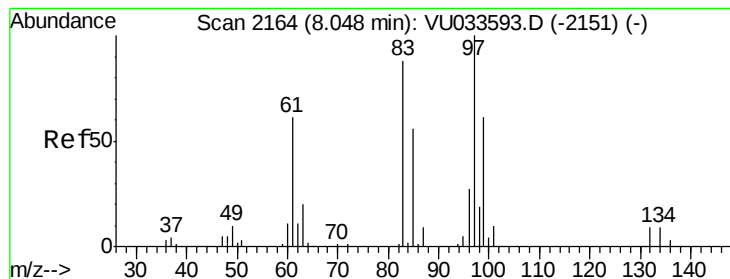
Tgt Ion: 75 Resp: 32869

Ion Ratio Lower Upper

75 100

77 31.3 21.6 40.2





#45

1,1,2-Trichloroethane

Concen: 9.070 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 22963

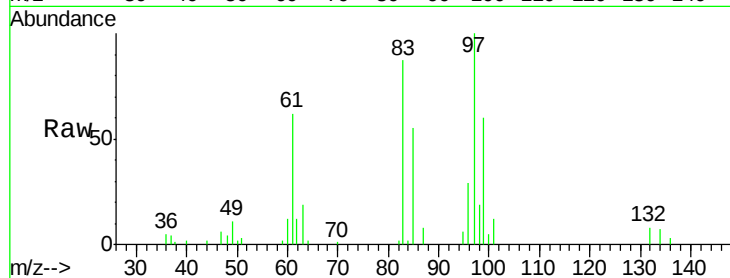
Ion Ratio Lower Upper

97 100

99 59.8 42.8 79.6

83 86.5 61.3 113.9

85 55.0 39.1 72.5

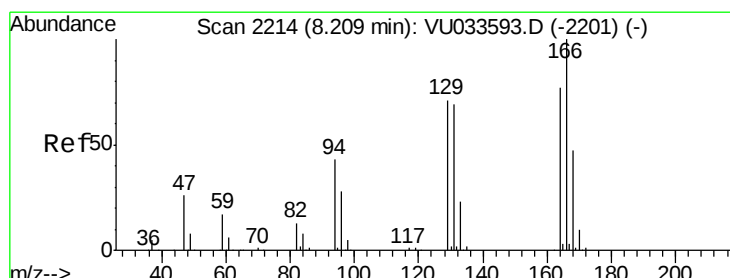
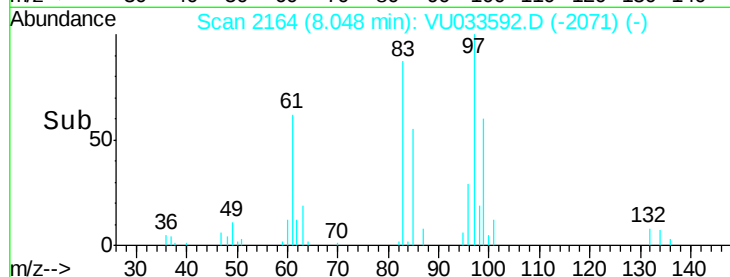
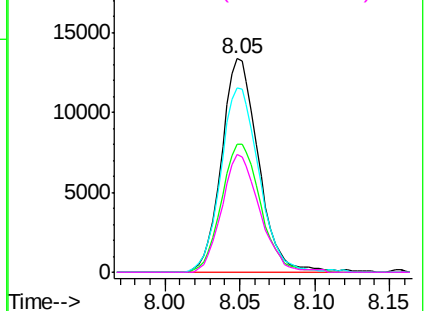


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 9.399 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Tgt Ion: 164 Resp: 19287

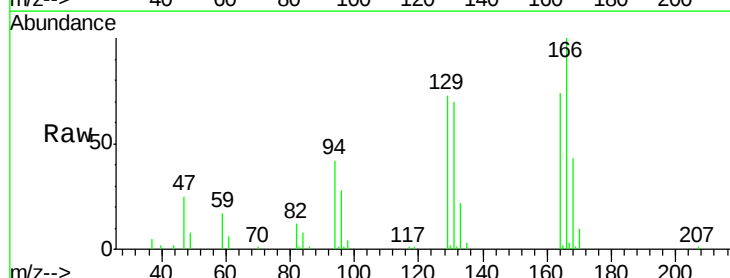
Ion Ratio Lower Upper

164 100

129 97.5 64.1 119.1

131 93.8 62.9 116.7

166 134.3 90.5 168.1

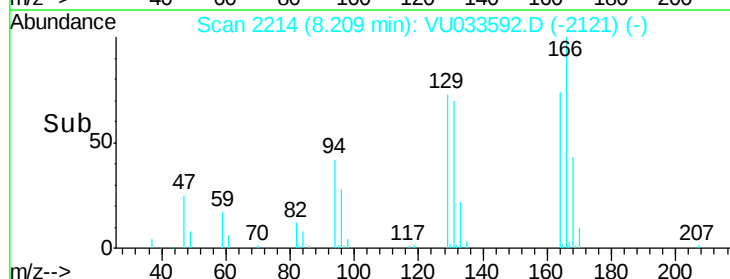
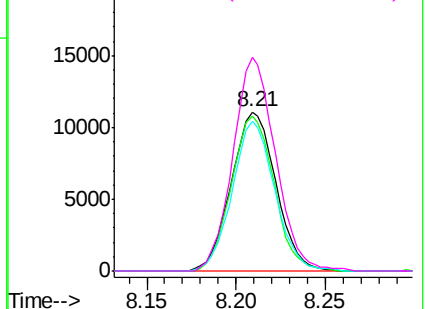


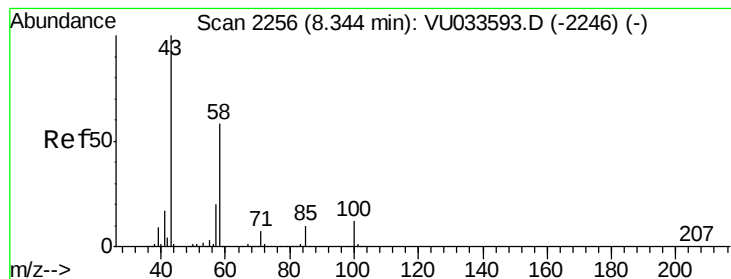
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 17.580 ug/L

RT: 8.35 min Scan# 2257

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 43 Resp: 54182

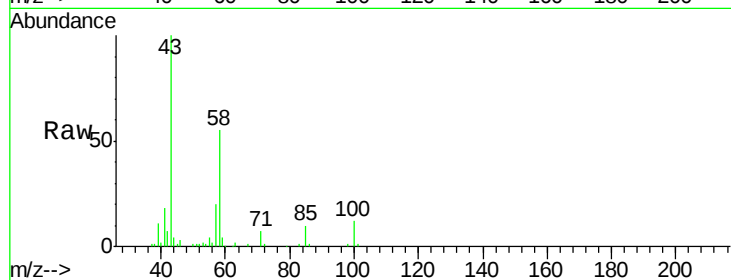
Ion Ratio Lower Upper

43 100

58 54.2 45.2 67.8

57 19.1 15.4 23.2

100 11.5 9.6 14.4

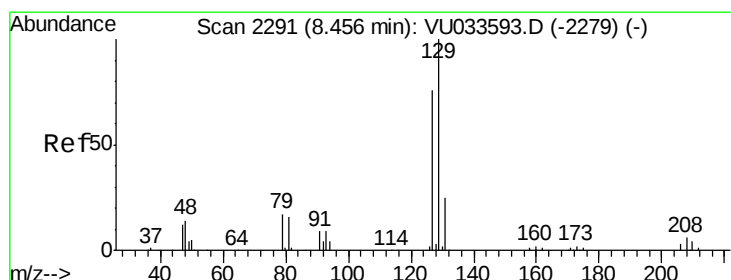
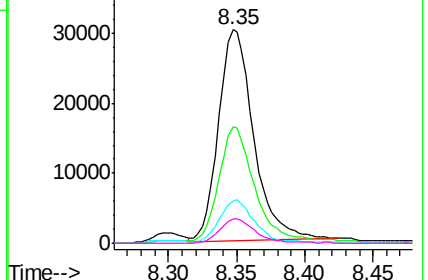
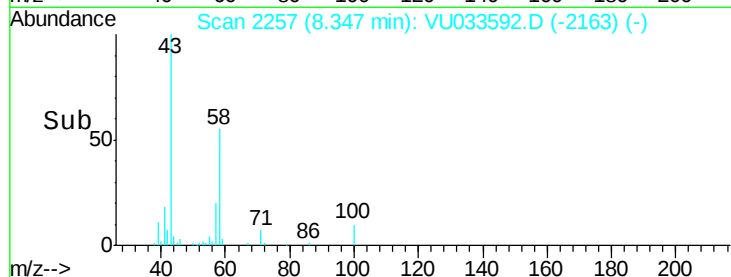


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



#49

Dibromochloromethane

Concen: 8.875 ug/L

RT: 8.46 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VU033592.D

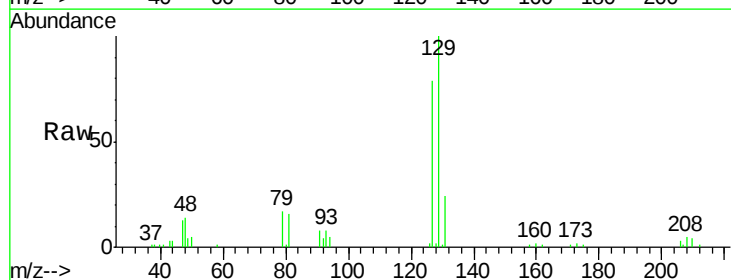
Acq: 05 Aug 2019 11:19

Tgt Ion: 129 Resp: 25348

Ion Ratio Lower Upper

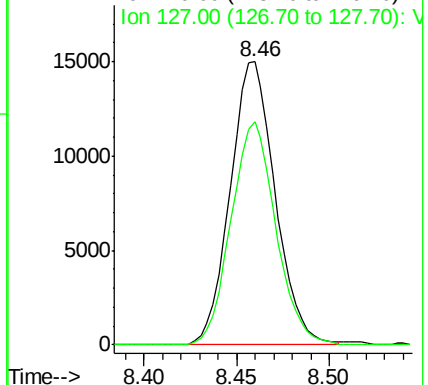
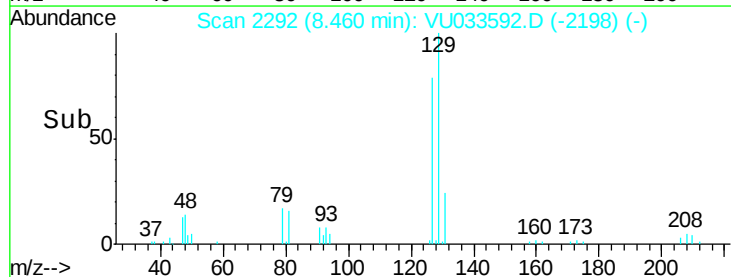
129 100

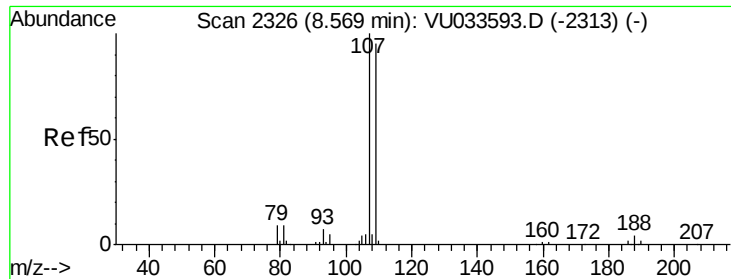
127 78.9 53.4 99.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

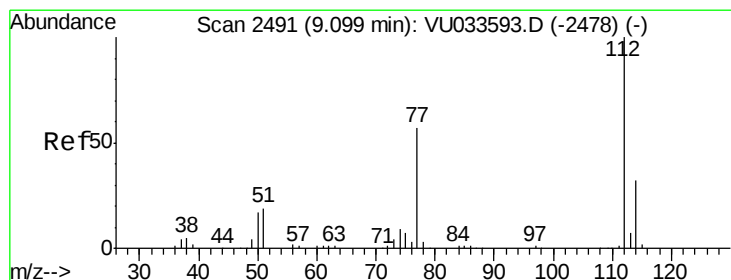
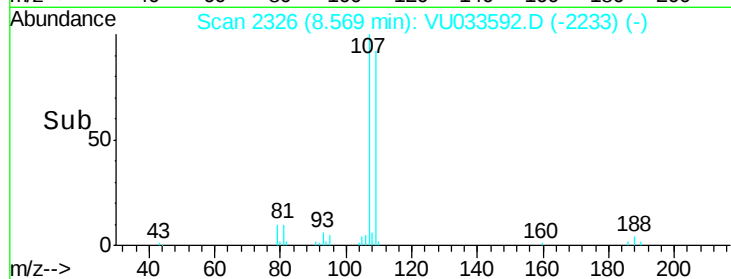
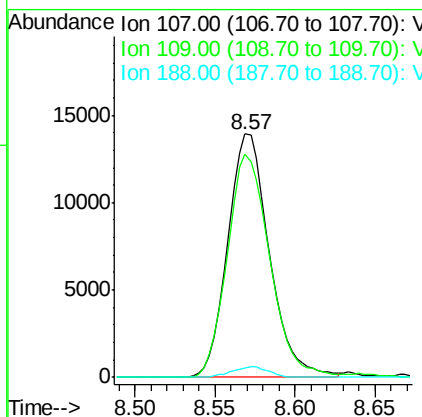
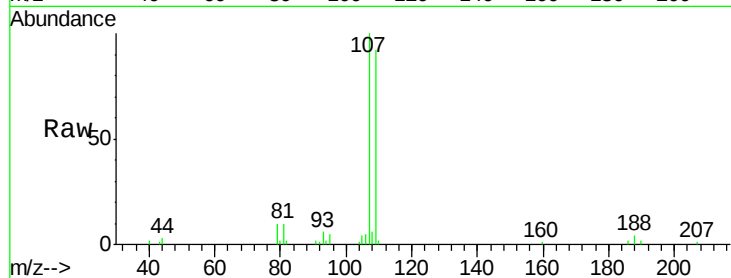




#50
1,2-Dibromoethane
Concen: 8.997 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033592.D
Acq: 05 Aug 2019 11:19

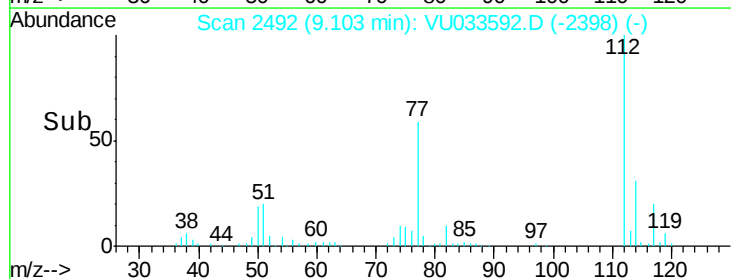
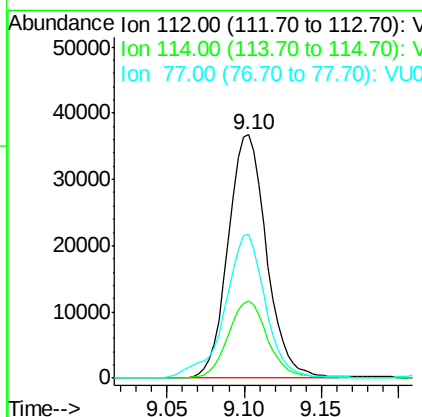
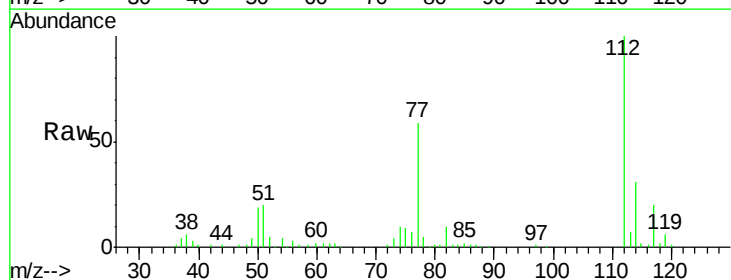
Instrument :
MSVOA_U
ClientSampleId :

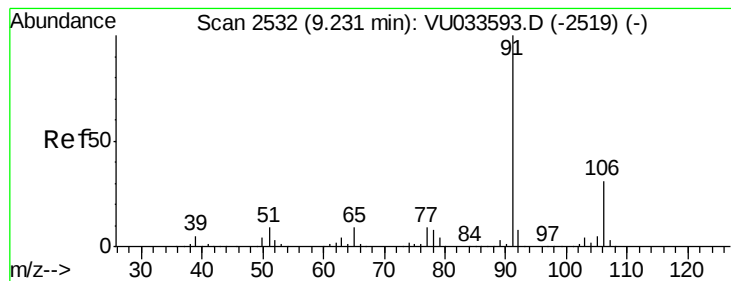
Tot Ion:107 Resp: 24699
Ion Ratio Lower Upper
107 100
109 91.8 66.5 123.5
188 3.9 3.0 4.6



#51
Chlorobenzene
Concen: 9.259 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033592.D
Acq: 05 Aug 2019 11:19

Tgt Ion:112 Resp: 63390
Ion Ratio Lower Upper
112 100
114 31.5 22.5 41.9
77 59.0 46.1 69.1





#52

Ethylbenzene

Concen: 8.975 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

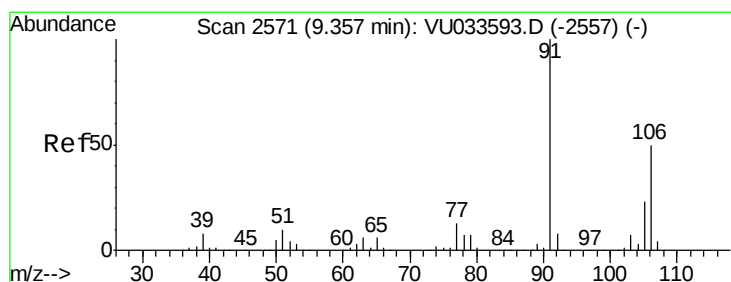
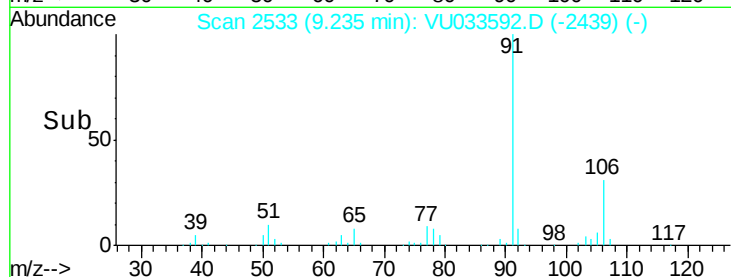
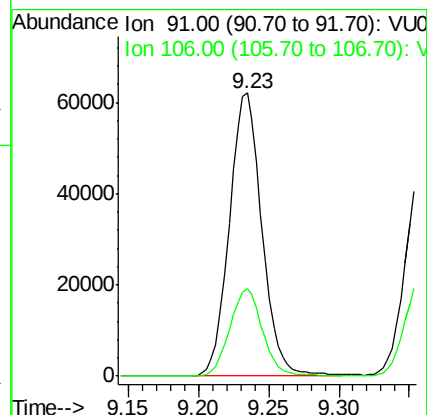
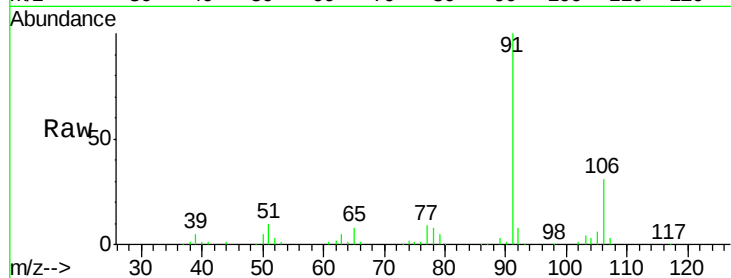
ClientSampleId :

Tot Ion: 91 Resp: 100090

Ion Ratio Lower Upper

91 100

106 31.0 21.8 40.4



#53

m,p-Xylene

Concen: 8.929 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033592.D

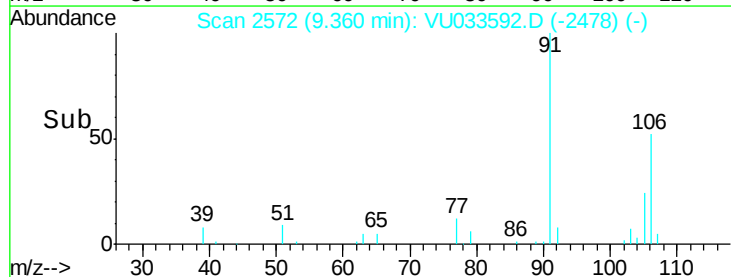
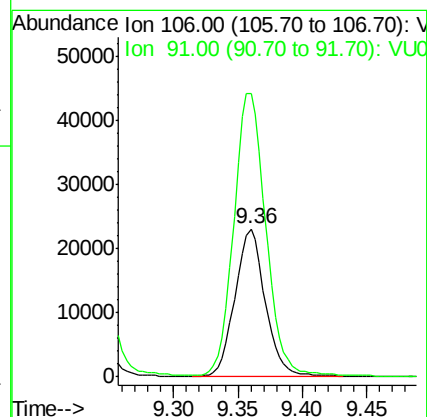
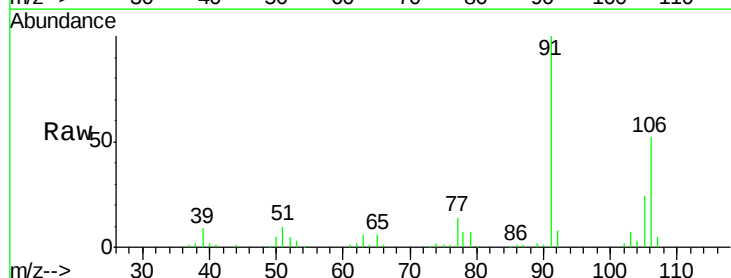
Acq: 05 Aug 2019 11:19

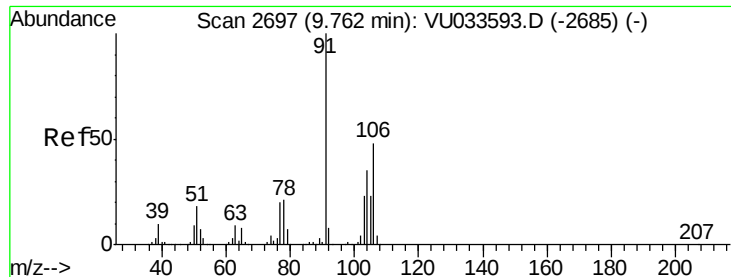
Tgt Ion: 106 Resp: 37928

Ion Ratio Lower Upper

106 100

91 191.6 141.3 262.5





#54

o-xylene

Concen: 8.766 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

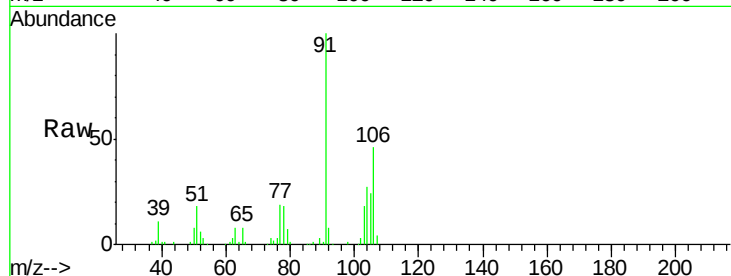
ClientSampleId :

Tot Ion:106 Resp: 36704

Ion Ratio Lower Upper

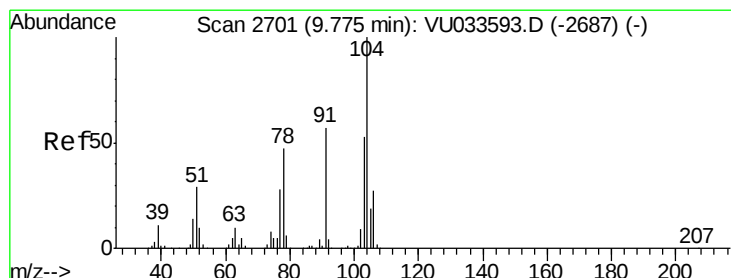
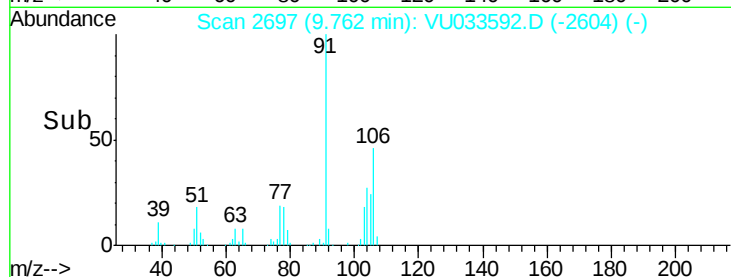
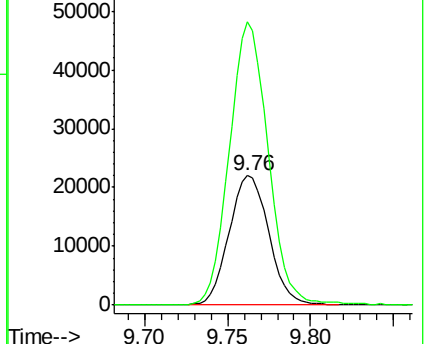
106 100

91 218.5 146.6 272.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 8.725 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033592.D

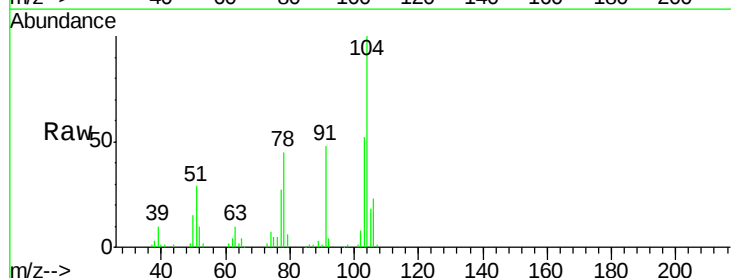
Acq: 05 Aug 2019 11:19

Tgt Ion:104 Resp: 61950

Ion Ratio Lower Upper

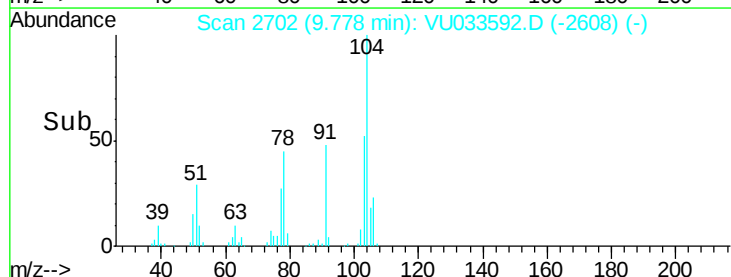
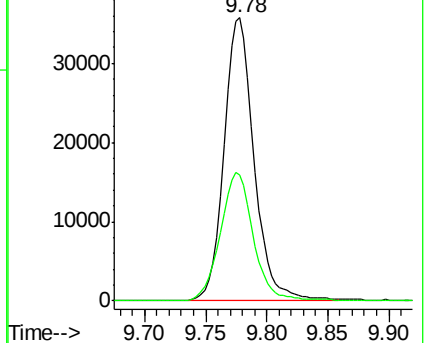
104 100

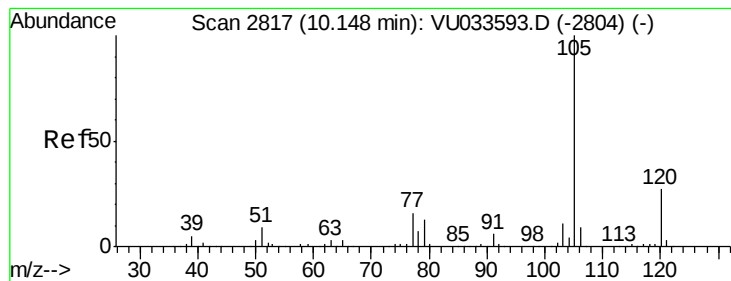
78 44.7 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 8.654 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

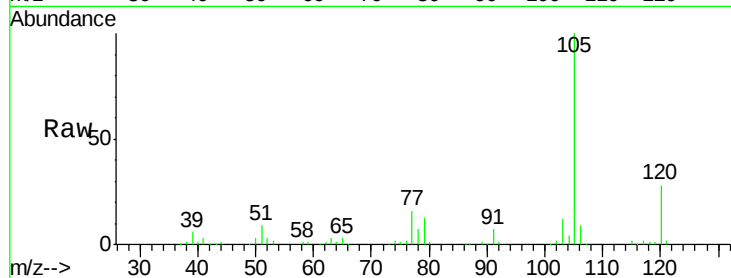
Tot Ion:105 Resp: 93844

Ion Ratio Lower Upper

105 100

120 27.5 21.4 32.2

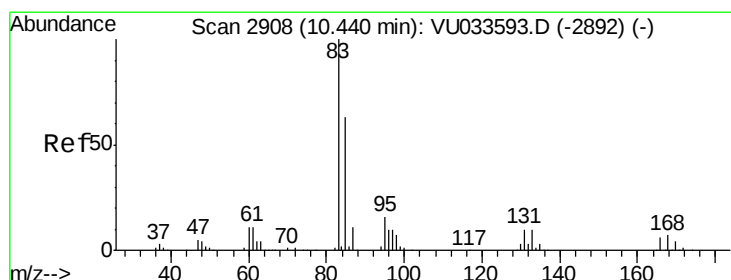
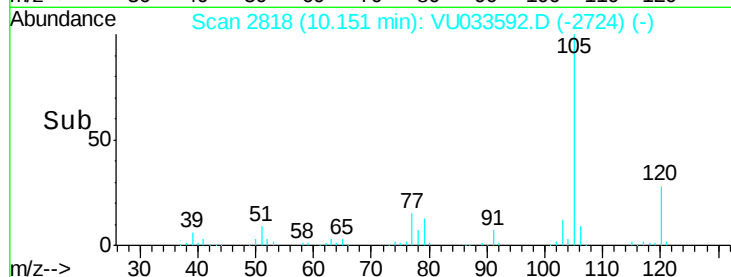
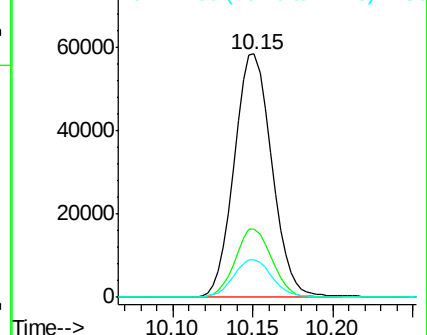
77 15.9 12.6 18.8



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: 9.115 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

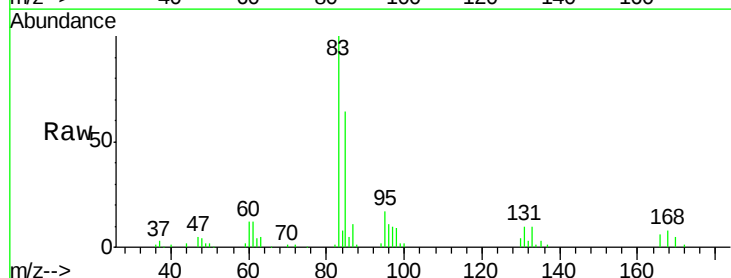
Tgt Ion: 83 Resp: 41312

Ion Ratio Lower Upper

83 100

85 63.8 44.3 82.3

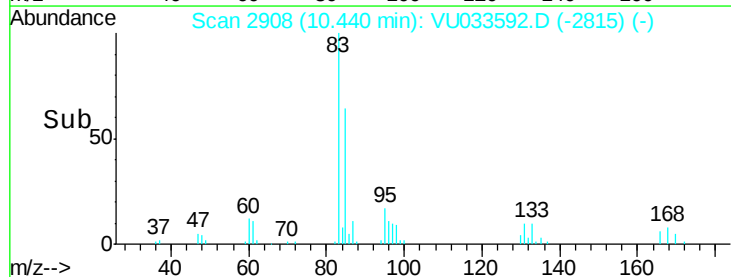
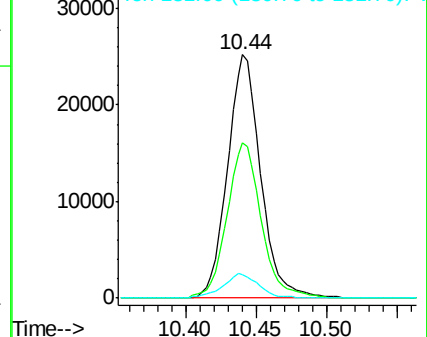
131 9.7 7.8 11.6

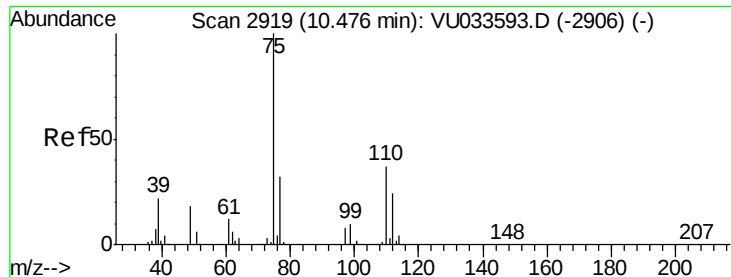


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

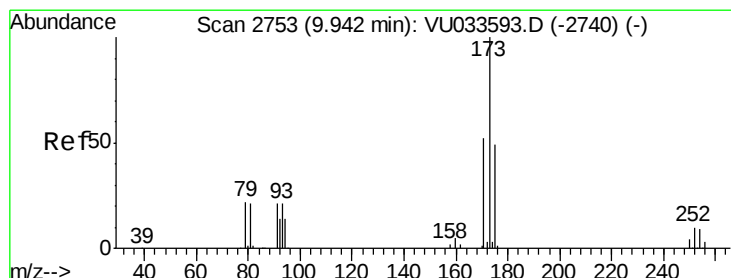
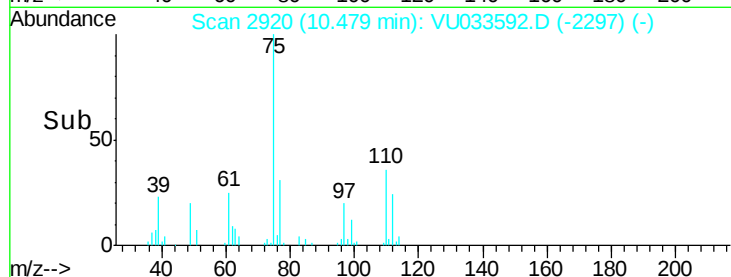
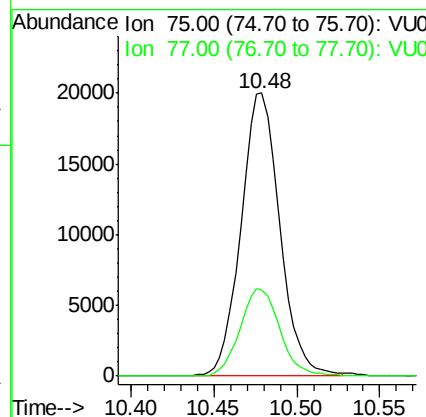
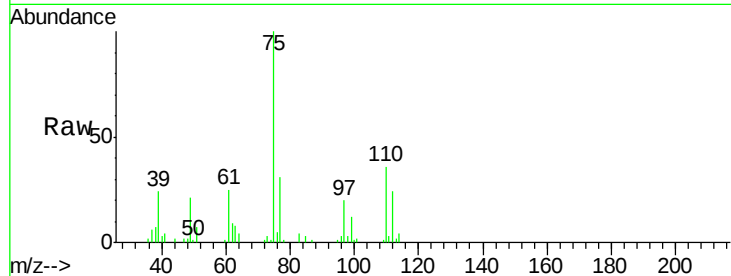




#59
 1,2,3-Trichloropropane
 Concen: 9.121 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

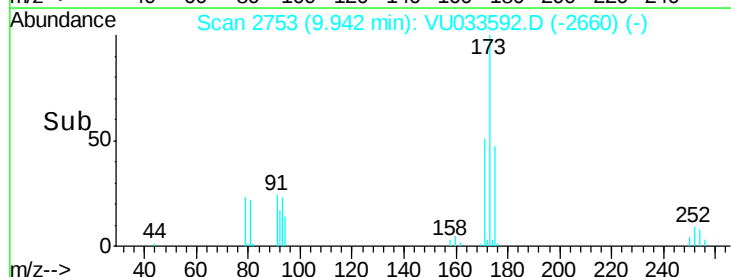
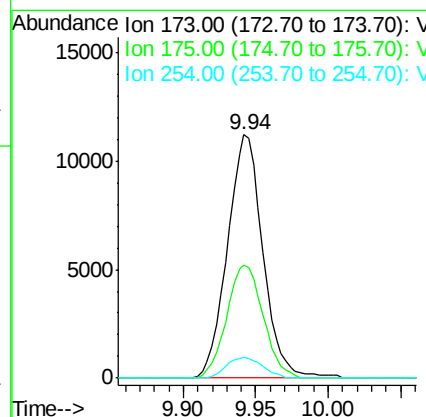
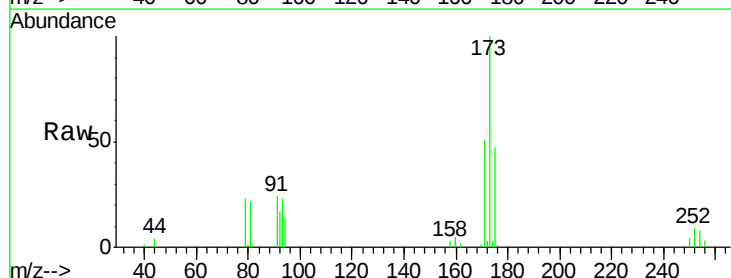
Instrument :
 MSVOA_U
 ClientSampleId :

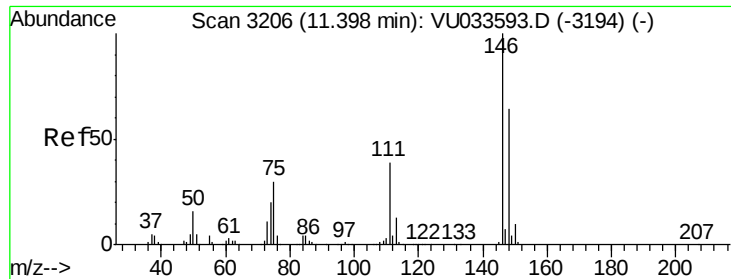
Tot Ion: 75 Resp: 32596
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.7 38.5



#61
 Bromoform
 Concen: 8.837 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

Tgt Ion: 173 Resp: 19083
 Ion Ratio Lower Upper
 173 100
 175 47.6 39.4 59.0
 254 8.7 7.2 10.8





#62

1,3-Dichlorobenzene

Concen: 9.141 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

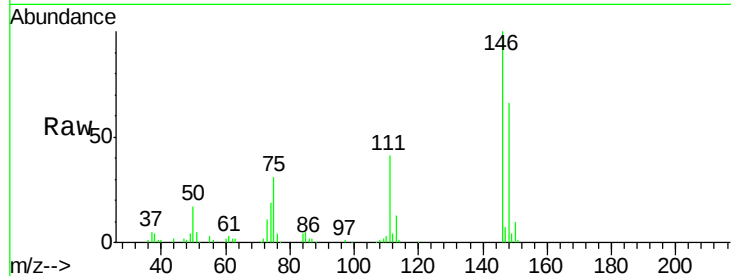
Tot Ion:146 Resp: 49632

Ion Ratio Lower Upper

146 100

111 40.7 27.5 51.1

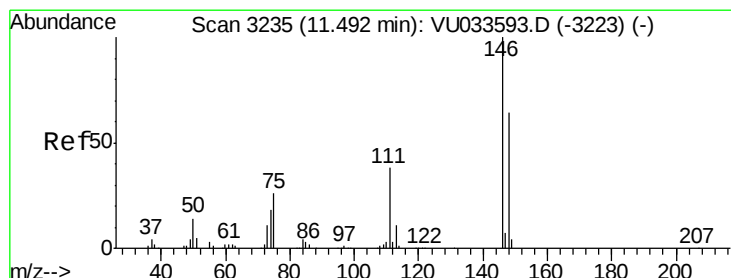
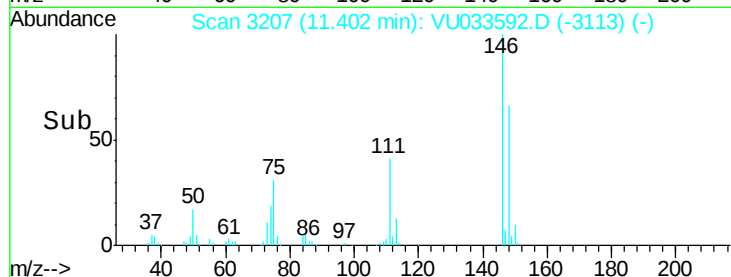
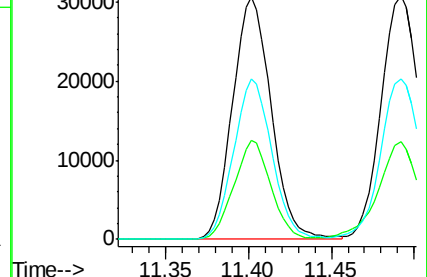
148 66.2 44.5 82.7



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



#63

1,4-Dichlorobenzene

Concen: 9.250 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

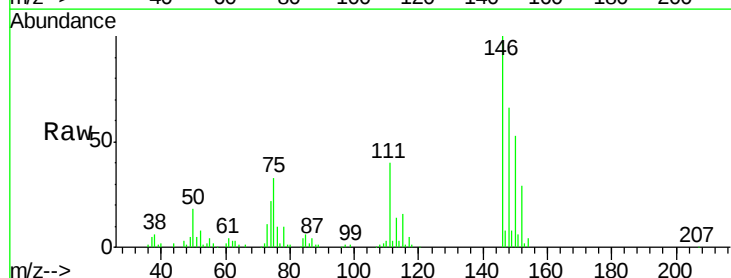
Tgt Ion:146 Resp: 51432

Ion Ratio Lower Upper

146 100

111 40.0 26.9 49.9

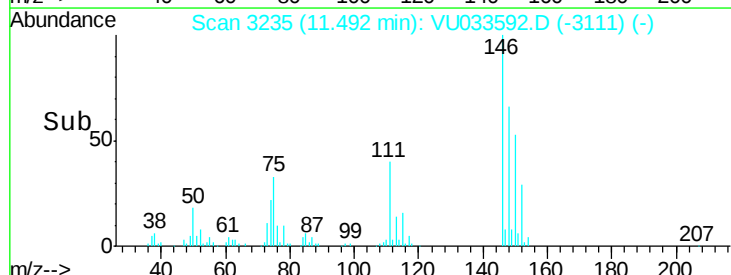
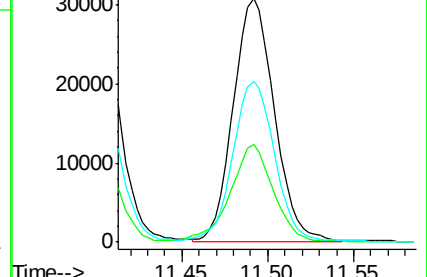
148 66.1 44.9 83.3

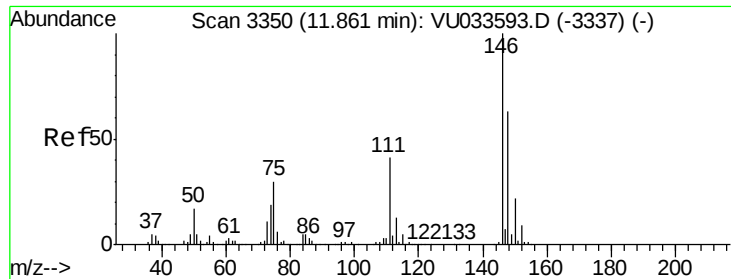


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 9.178 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

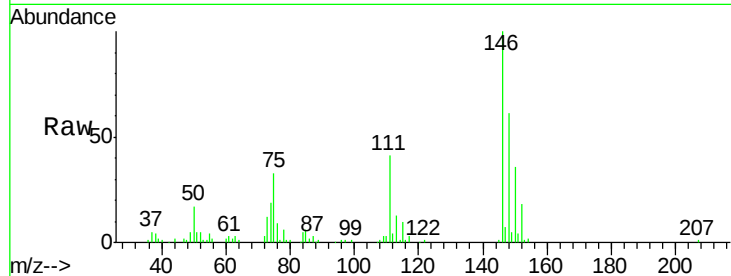
Tot Ion:146 Resp: 49862

Ion Ratio Lower Upper

146 100

111 40.6 33.0 49.6

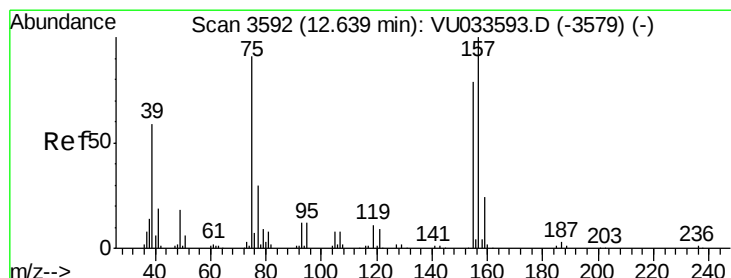
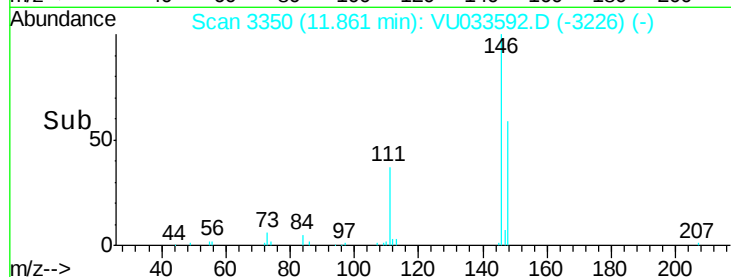
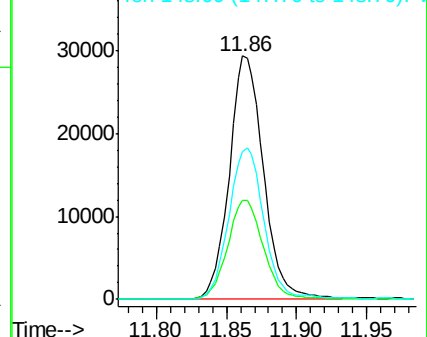
148 60.8 50.6 75.8



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: 8.558 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

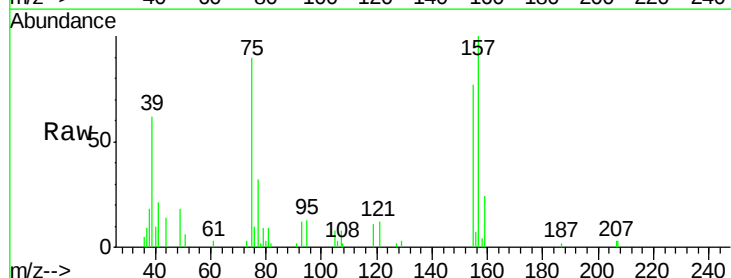
Tgt Ion: 75 Resp: 8916

Ion Ratio Lower Upper

75 100

155 85.1 69.0 103.6

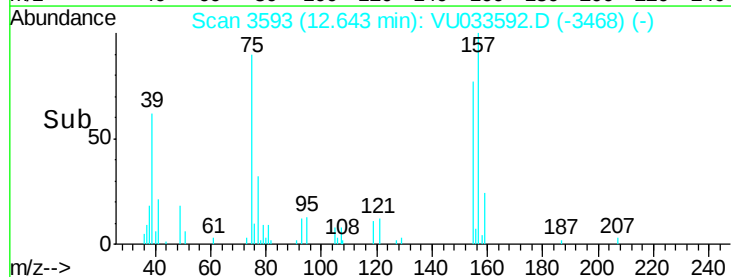
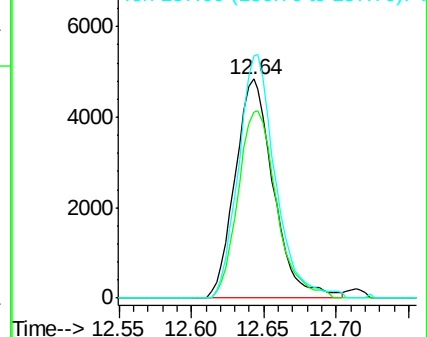
157 110.9 87.8 131.8

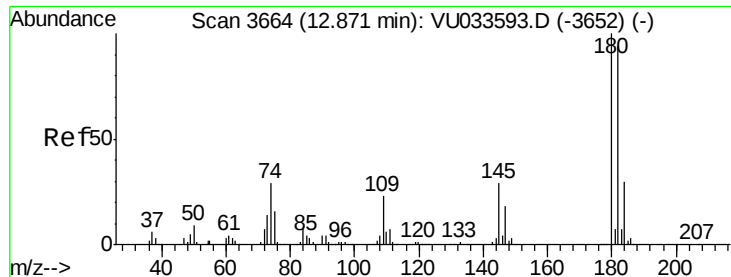


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

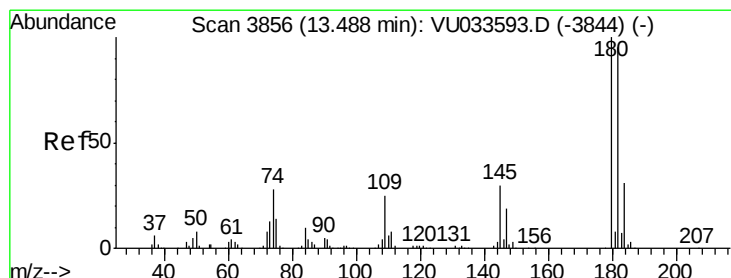
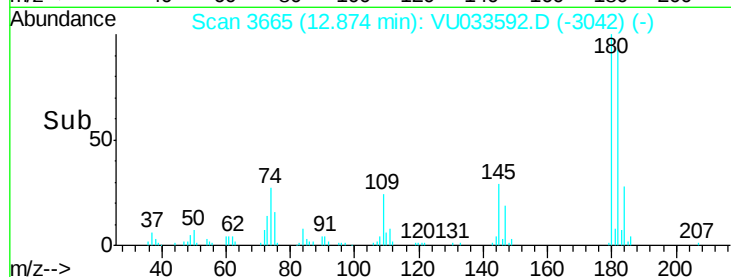
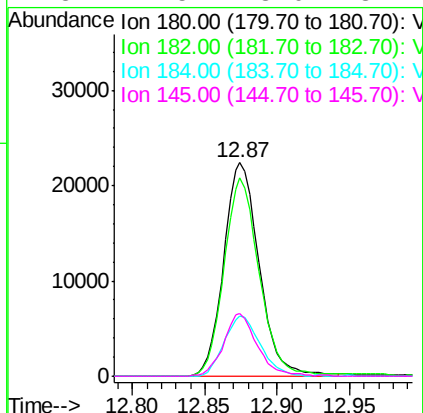
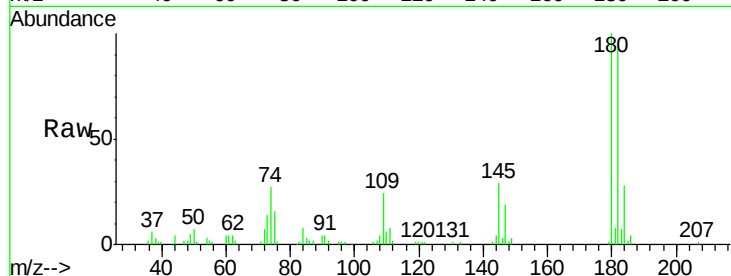




#67
 1,3,5-Trichlorobenzene
 Concen: 9.077 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

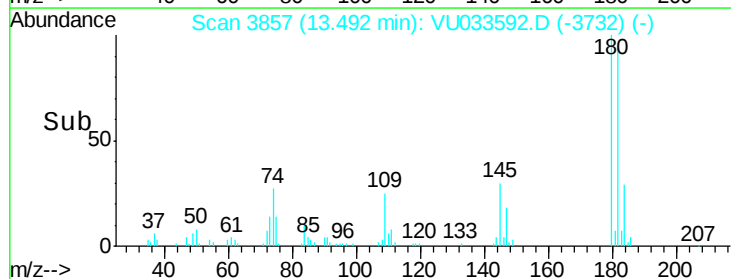
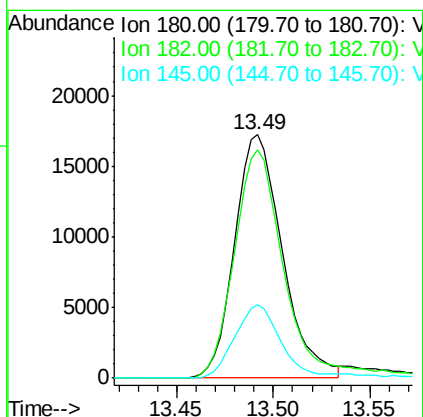
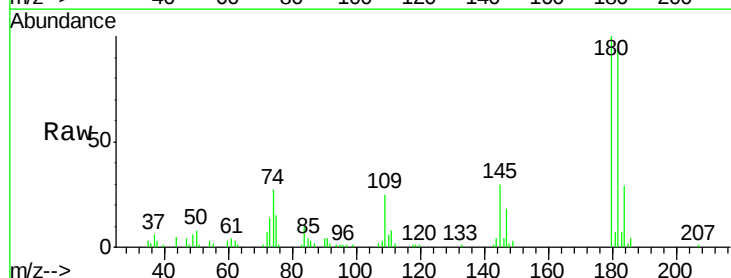
Instrument :
 MSVOA_U
 ClientSampleId :

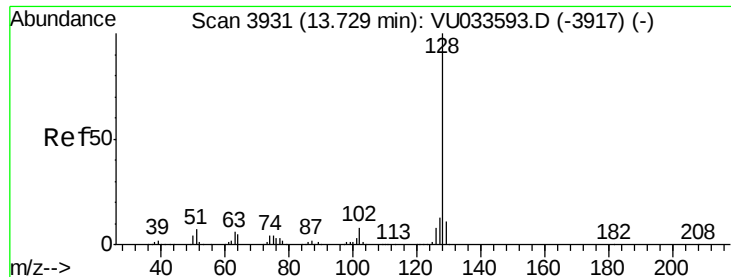
Tot Ion:180	Resp:	38052
Ion Ratio	Lower	Upper
180	100	
182	91.6	76.2 114.2
184	28.4	24.2 36.4
145	27.5	23.0 34.4



#68
 1,2,4-trichlorobenzene
 Concen: 8.384 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033592.D
 Acq: 05 Aug 2019 11:19

Tgt Ion:180	Resp:	29556
Ion Ratio	Lower	Upper
180	100	
182	99.8	76.7 115.1
145	28.6	23.5 35.3





#69

Naphthalene

Concen: 7.782 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

Instrument :

MSVOA_U

ClientSampled :

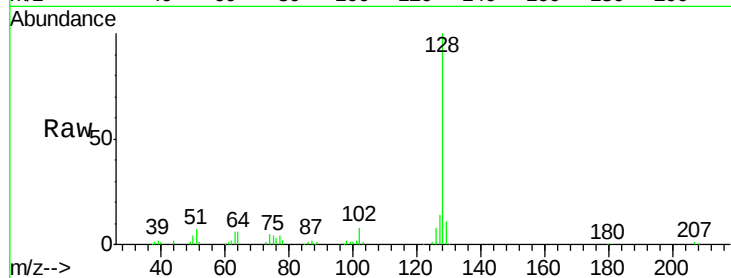
Tot Ion:128 Resp: 79687

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

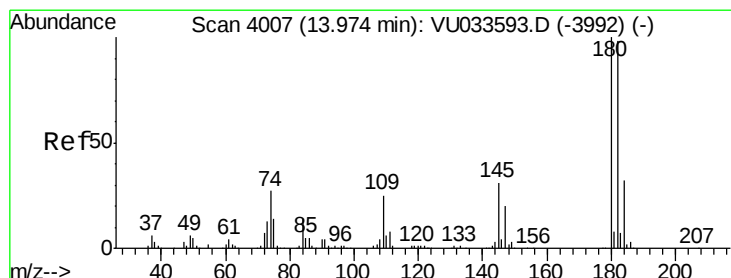
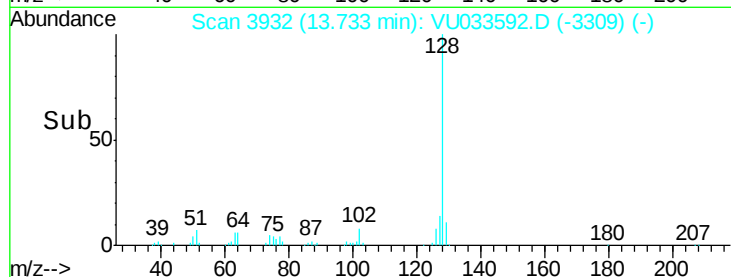
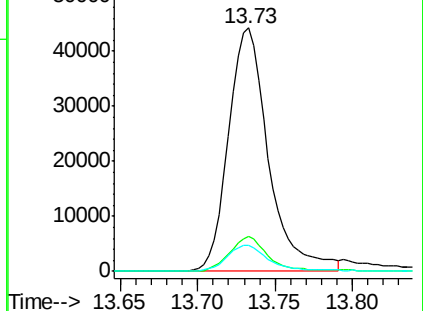
129 11.0 8.6 12.8



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: 8.700 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033592.D

Acq: 05 Aug 2019 11:19

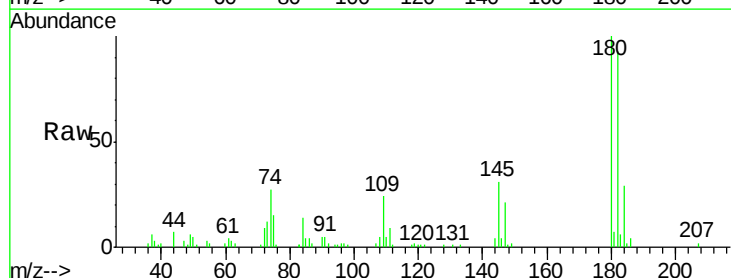
Tgt Ion:180 Resp: 32781

Ion Ratio Lower Upper

180 100

182 91.1 77.4 116.2

145 31.9 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

