

Data File : VU033259.D
Acq On : 16 Jul 2019 10:51
Operator : JC/SP
Sample : VSTD02001
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

Quant Time: Jul 17 04:02:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR071619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 17 03:58:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	140364	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	145205	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	79070	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	282126	29.89	ug/L	0.00
7) Chloroethane-d5	1.66	69	240385	28.82	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	564085	26.78	ug/L	0.00
20) 2-Butanone-d5	4.16	46	568301	193.86	ug/L	-0.02
24) Chloroform-d	4.62	84	431921	22.01	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	223075	19.98	ug/L	0.00
32) Benzene-d6	5.31	84	866674	23.99	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	268357	22.46	ug/L	0.00
41) Toluene-d8	7.55	98	844405	24.25	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	114845	22.68	ug/L	0.00
46) 2-Hexanone-d5	8.30	63	531653	254.24	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	231530	22.31	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	325933	22.53	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	247292	17.707	ug/L	99
3) Chloromethane	1.32	50	268611	19.000	ug/L	99
5) Vinyl chloride	1.39	62	312285	22.031	ug/L	99
6) Bromomethane	1.60	94	202259	24.721	ug/L	94
8) Chloroethane	1.68	64	193413	22.407	ug/L	98
9) Trichlorofluoromethane	1.87	101	425845	21.112	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	244058	23.034	ug/L	99
12) 1,1-Dichloroethene	2.27	96	233130	24.036	ug/L	97
13) Acetone	2.31	43	444306	184.447	ug/L	99
14) Carbon disulfide	2.46	76	756530	23.624	ug/L	100
15) Methyl Acetate	2.60	43	116041	20.000	ug/L	97
16) Methylene chloride	2.68	84	263029	22.955	ug/L	95
17) Methyl tert-butyl Ether	2.98	73	629469	22.686	ug/L	100
18) trans-1,2-Dichloroethene	2.96	96	254408	23.738	ug/L	99
19) 1,1-Dichloroethane	3.42	63	387836	19.145	ug/L	98
21) 2-Butanone	4.25	43	569339	170.762	ug/L	96
22) cis-1,2-Dichloroethene	4.20	96	229097	20.571	ug/L	95
23) Bromochloromethane	4.52	128	101289	19.653	ug/L	98
25) Chloroform	4.65	83	403045	18.010	ug/L	100
27) 1,2-Dichloroethane	5.38	62	260950	18.151	ug/L	99
29) 1,1,1-Trichloroethane	4.89	97	344352	18.718	ug/L	100
30) Cyclohexane	4.96	56	343550	20.573	ug/L	100
31) Carbon tetrachloride	5.11	117	310636	18.883	ug/L	99
33) Benzene	5.36	78	885318	20.771	ug/L	100
34) Trichloroethene	6.16	95	226667	19.700	ug/L	98
35) Methylcyclohexane	6.39	83	379908	22.108	ug/L	98
37) 1,2-Dichloropropane	6.41	63	231872	19.878	ug/L	100
38) Bromodichloromethane	6.74	83	294518	19.411	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	357186	21.710	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	1458272	185.866	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	989774	21.582	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	289464	21.113	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	164865	20.116	ug/L	96
47) Tetrachloroethene	8.21	164	182566	19.264	ug/L	97
48) 2-Hexanone	8.35	43	1057535	184.821	ug/L	98
49) Dibromochloromethane	8.46	129	209751	20.403	ug/L	98
50) 1,2-Dibromoethane	8.57	107	162898	20.710	ug/L	99
51) Chlorobenzene	9.10	112	625772	20.678	ug/L	99
52) Ethylbenzene	9.23	91	1105367	22.040	ug/L	99
53) m,p-Xylene	9.36	106	424800	23.024	ug/L	94
54) o-Xylene	9.76	106	420120	23.408	ug/L	100
55) Styrene	9.77	104	729236	23.962	ug/L	99
56) Isopropylbenzene	10.15	105	1107286	23.110	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	222499	21.163	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	156327	19.698	ug/L	98
61) Bromoform	9.94	173	122924	20.699	ug/L	97
62) 1,3-Dichlorobenzene	11.40	146	516147	20.912	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	523829	20.326	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	503772	20.853	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	35346	20.822	ug/L	96
67) 1,3,5-Trichlorobenzene	12.87	180	411443	21.335	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	352690	25.097	ug/L	98
69) Naphthalene	13.73	128	650570	30.265	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	329418	24.558	ug/L	99

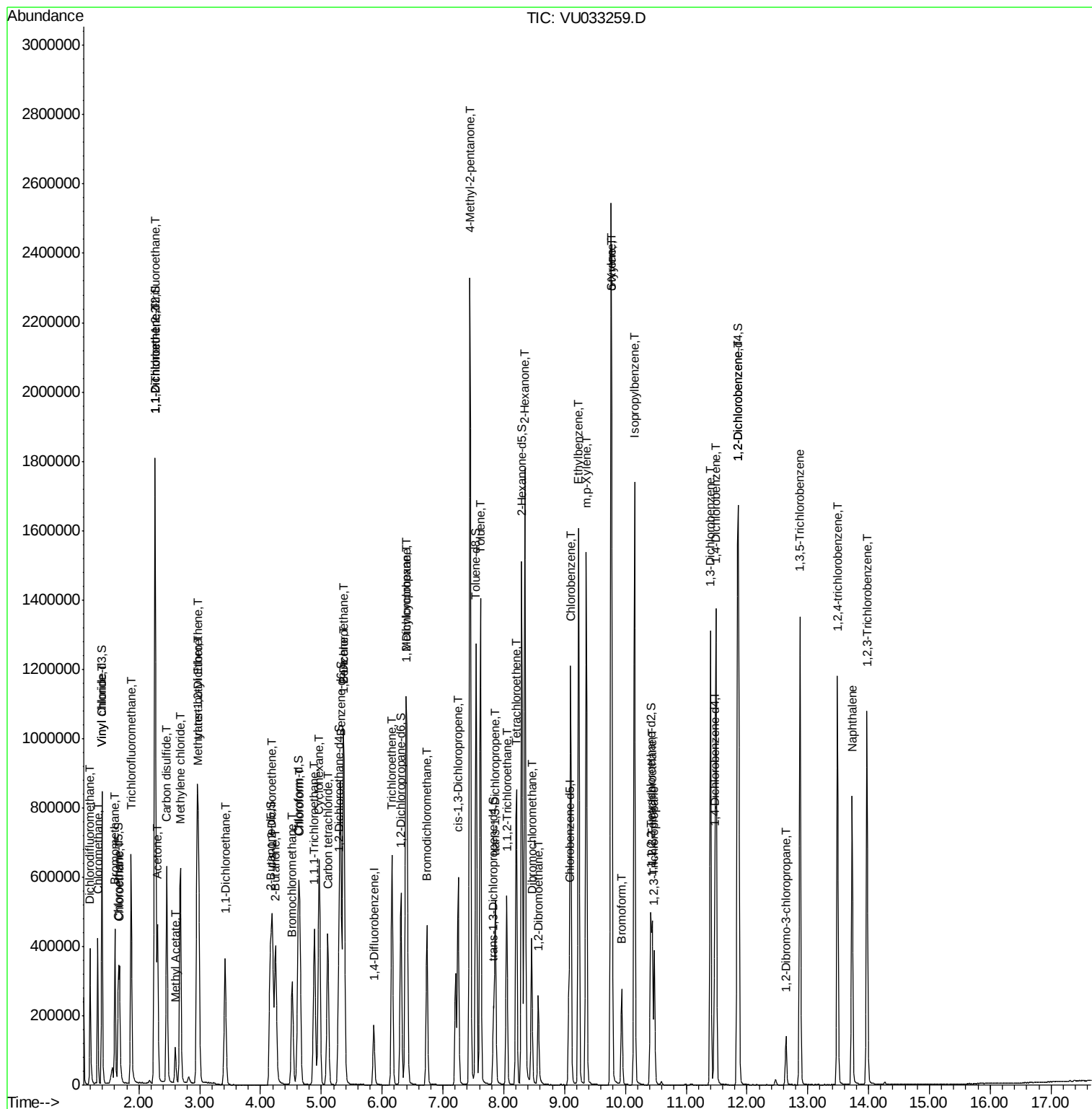
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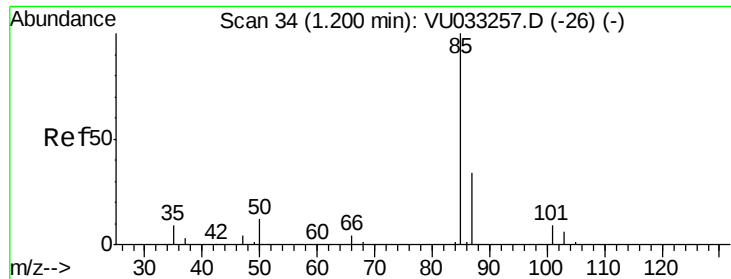
Data File : VU033259.D

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#2

Dichlorodifluoromethane

Concen: 17.707 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033259.D

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Instrument :

MSVOA_U

ClientSampleId :

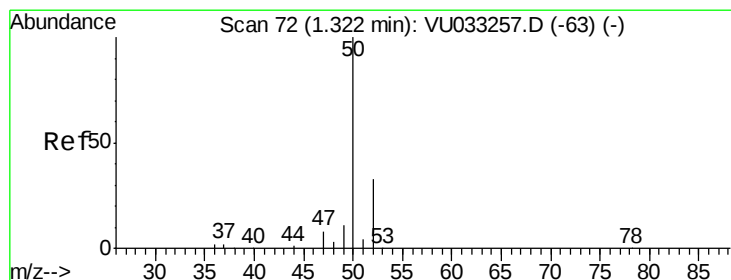
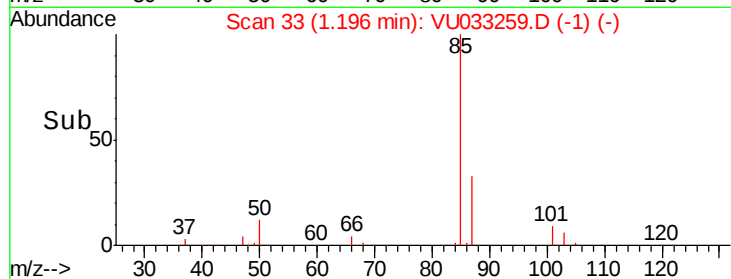
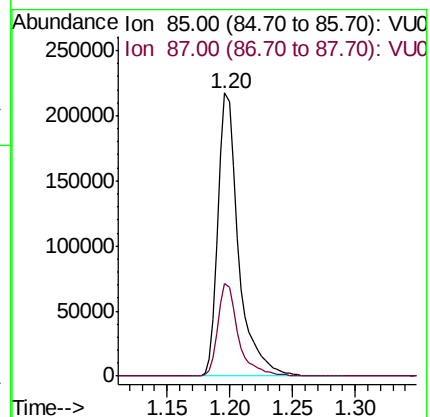
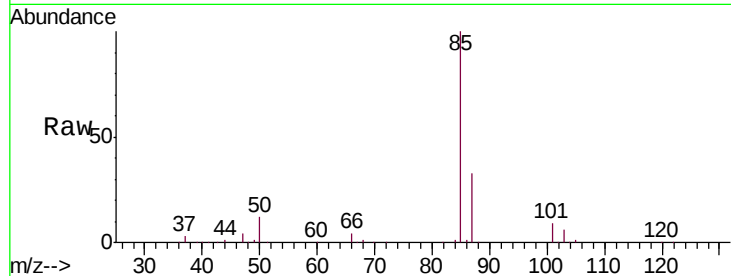
VSTD02001

Tgt Ion: 85 Resp: 247292

Ion Ratio Lower Upper

85 100

87 32.5 26.3 39.5



#3

Chloromethane

Concen: 19.000 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033259.D

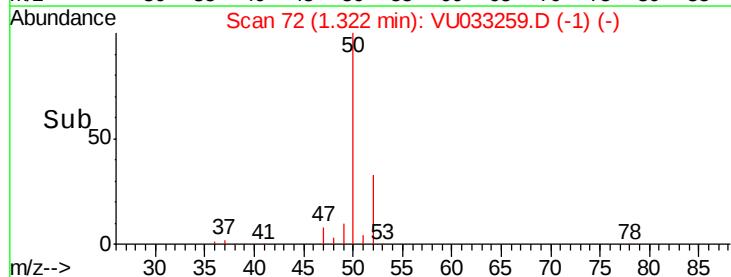
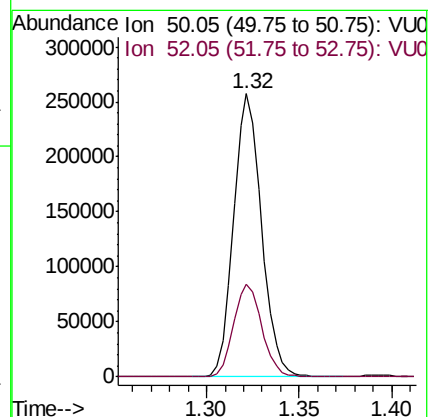
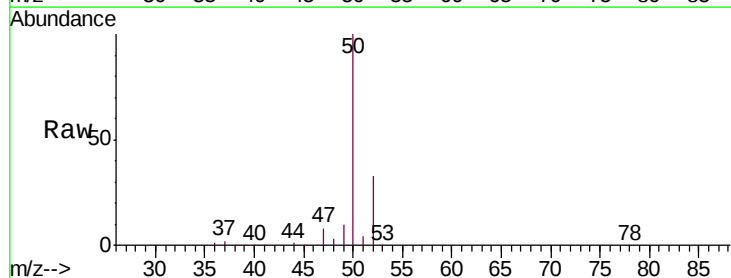
Acq: 16 Jul 2019 10:51

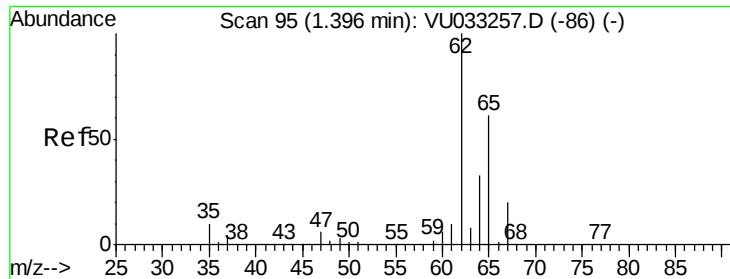
Tgt Ion: 50 Resp: 268611

Ion Ratio Lower Upper

50 100

52 32.9 23.3 43.3





#5

Vinyl chloride

Concen: 22.031 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

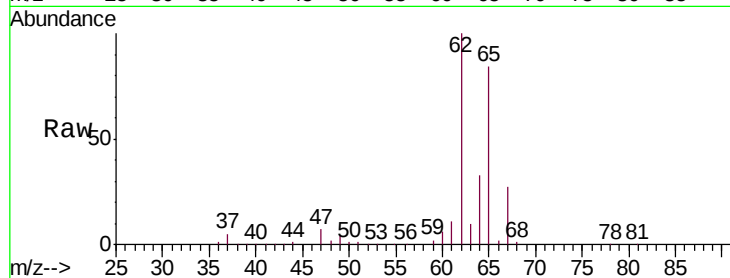
VSTD02001

Tgt Ion: 62 Resp: 312285

Ion Ratio Lower Upper

62 100

64 32.9 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU033259.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU033259.D (-86) (-)

1.39

300000

250000

200000

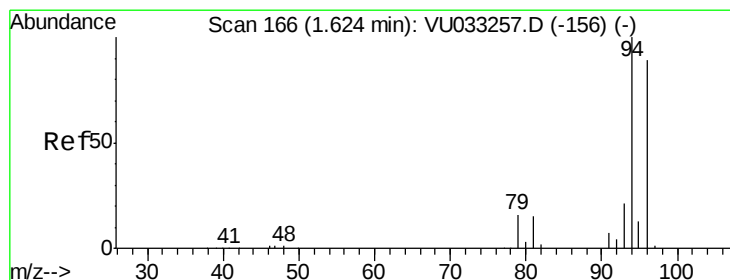
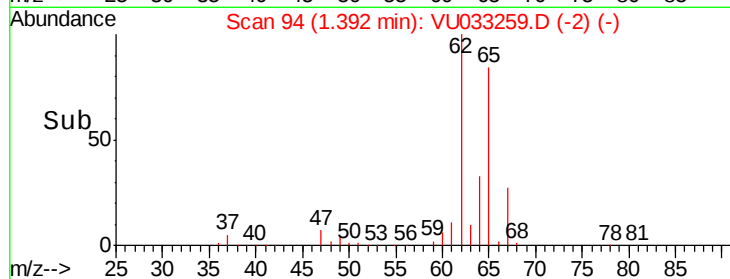
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 24.721 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.02 min

Lab File: VU033259.D

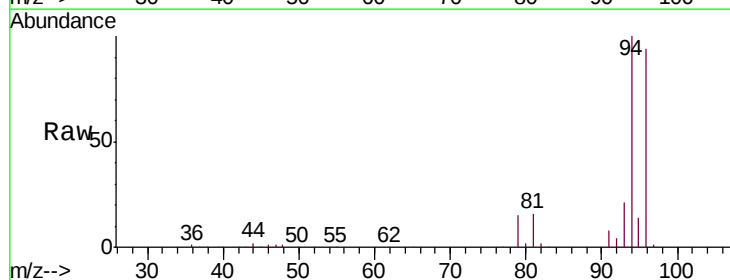
Acq: 16 Jul 2019 10:51

Tgt Ion: 94 Resp: 202259

Ion Ratio Lower Upper

94 100

96 94.4 62.4 116.0



Abundance Ion 94.00 (93.70 to 94.70): VU033259.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU033259.D (-156) (-)

1.60

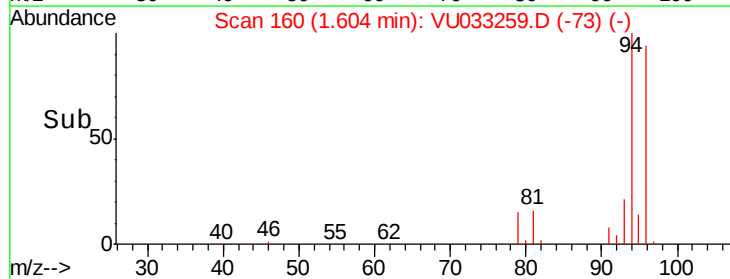
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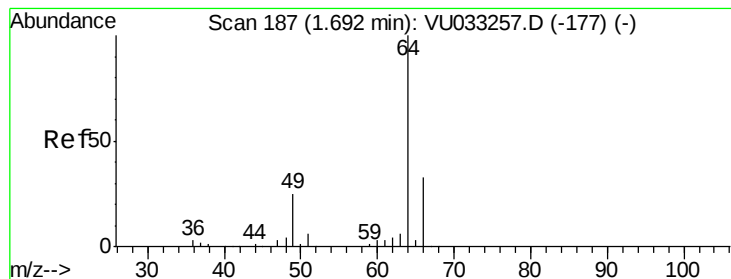
100000

50000

0

Time-->





#8

Chloroethane

Concen: 22.407 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

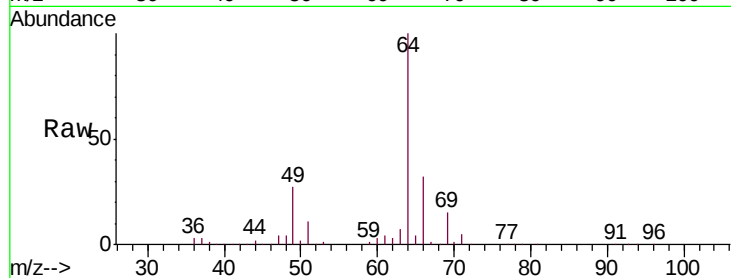
VSTD02001

Tgt Ion: 64 Resp: 193413

Ion Ratio Lower Upper

64 100

66 32.1 23.2 43.2



Abundance Ion 64.10 (63.80 to 64.80): VU033257.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU033259.D (-94) (-)

1.68

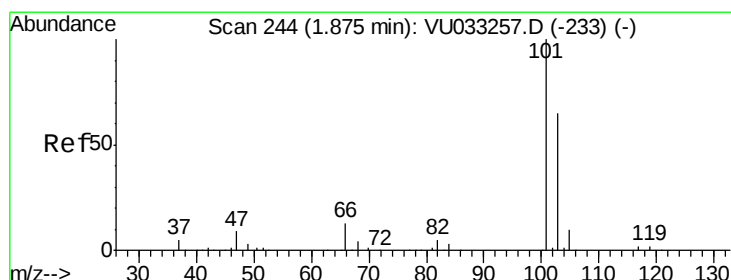
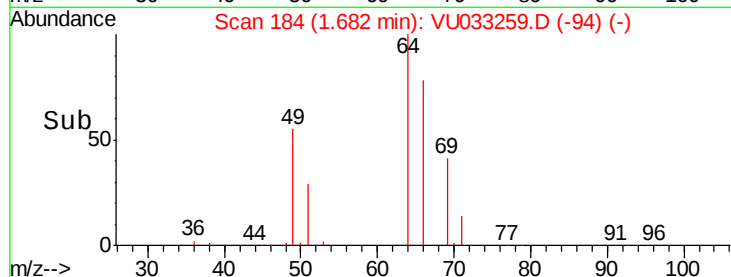
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 21.112 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033259.D

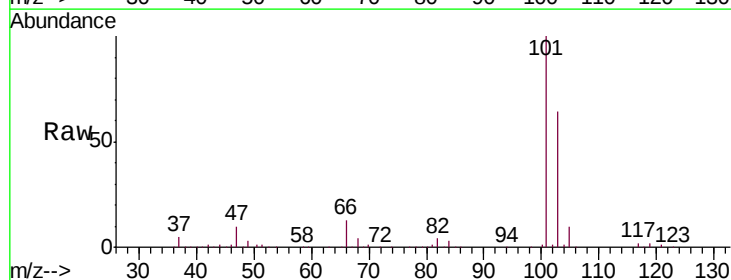
Acq: 16 Jul 2019 10:51

Tgt Ion: 101 Resp: 425845

Ion Ratio Lower Upper

101 100

103 64.6 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU033257.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033259.D (-151) (-)

1.87

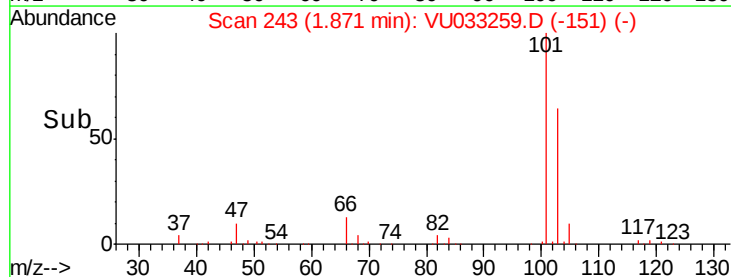
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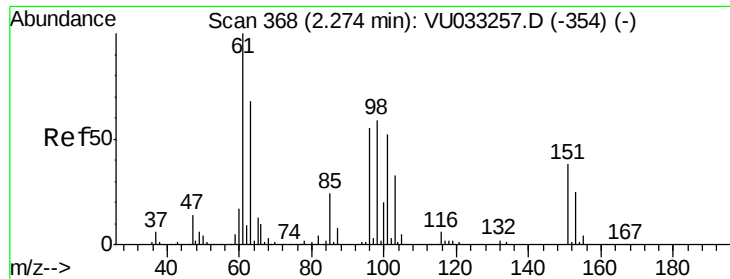
200000

100000

0

Time-->





#10

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

Concen: 23.034 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

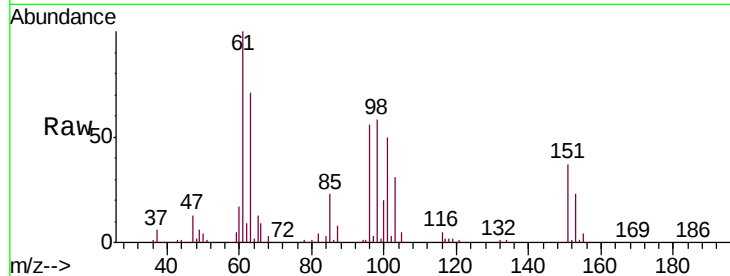
Tgt Ion: 101 Resp: 244058

Ion Ratio Lower Upper

101 100

85 45.3 37.4 56.0

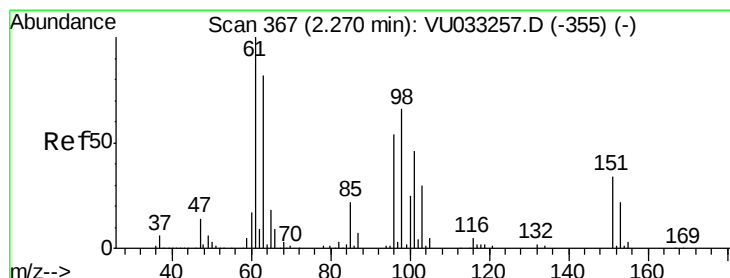
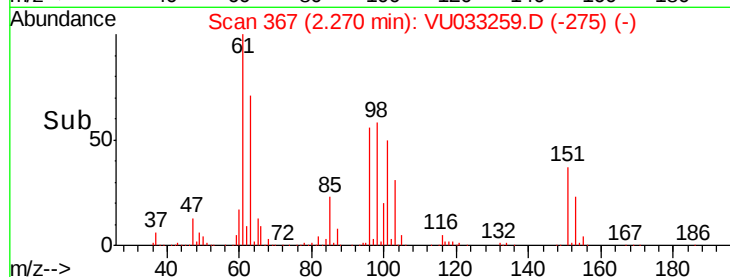
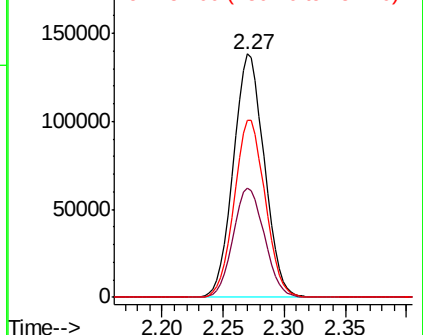
151 72.5 58.6 87.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 24.036 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

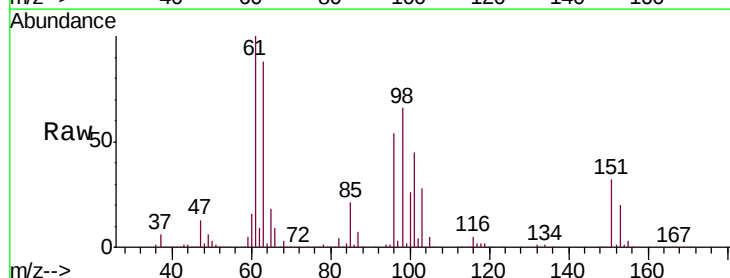
Tgt Ion: 96 Resp: 233130

Ion Ratio Lower Upper

96 100

61 186.1 129.3 240.1

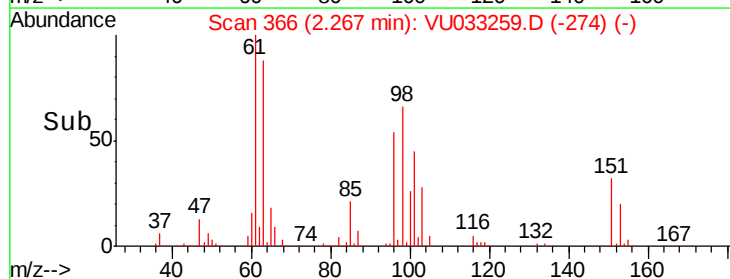
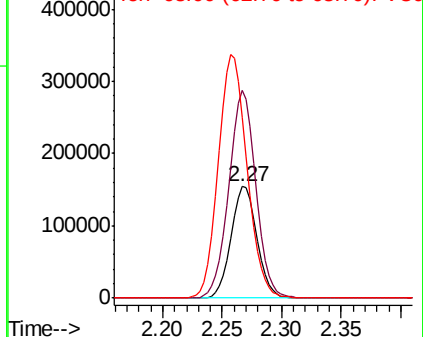
63 162.9 108.9 202.3

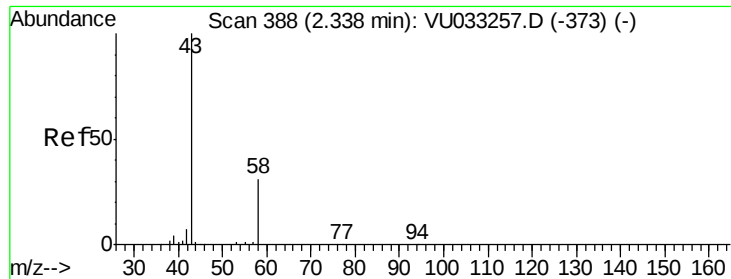


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 184.447 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.03 min

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MSVOA_U

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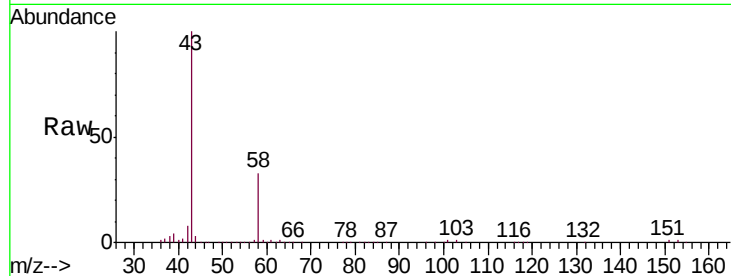
VSTD02001

Tgt Ion: 43 Resp: 444306

Ion Ratio Lower Upper

43 100

58 32.6 0.0 66.6



Abundance Ion 43.05 (42.75 to 43.75): VU033257.D (-373) (-)

Ion 58.05 (57.75 to 58.75): VU033257.D (-373) (-)

2.31

300000

250000

200000

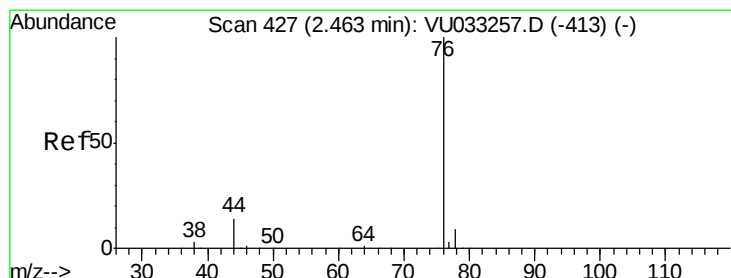
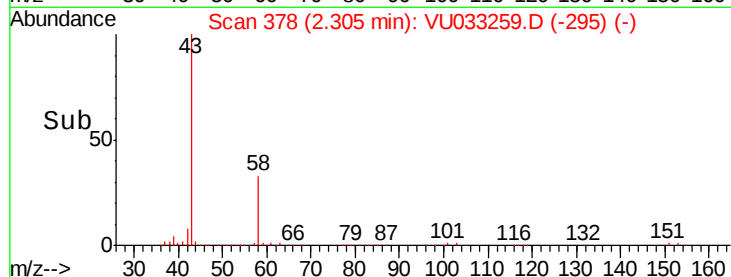
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 23.624 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033259.D

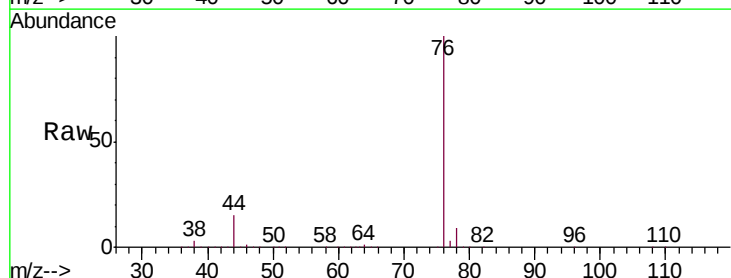
Acq: 16 Jul 2019 10:51

Tgt Ion: 76 Resp: 756530

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU033257.D (-413) (-)

Ion 78.00 (77.70 to 78.70): VU033257.D (-413) (-)

2.46

500000

400000

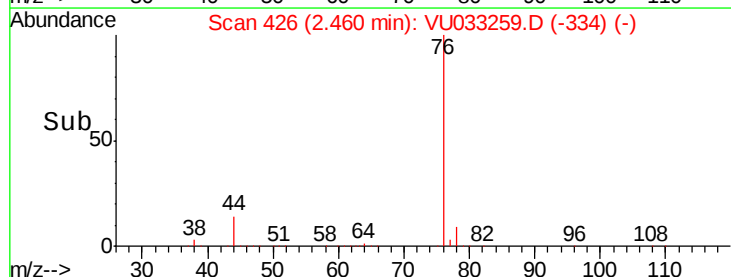
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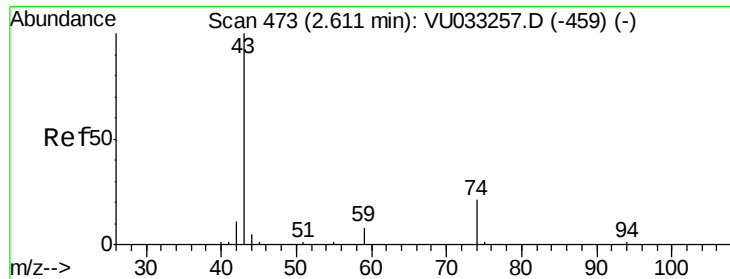
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Time-->

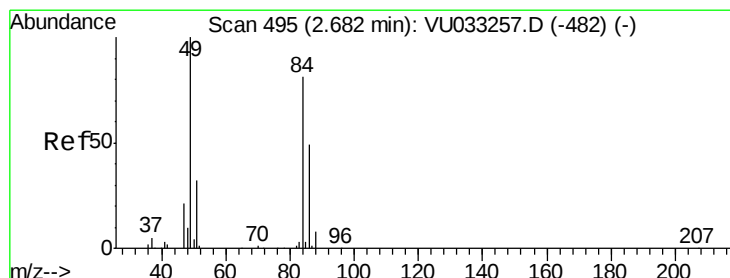
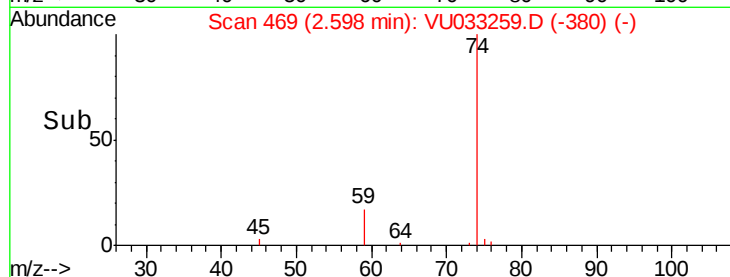
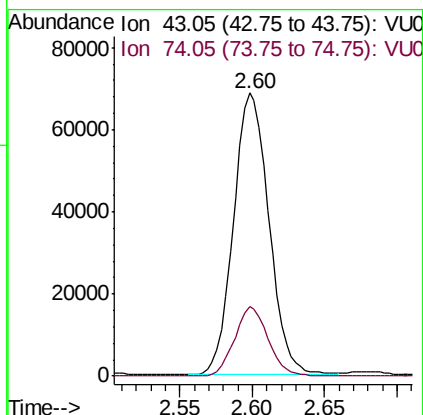
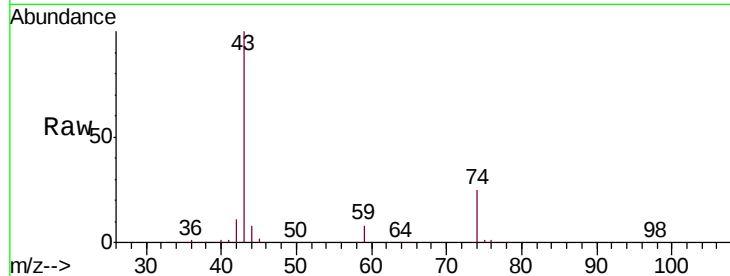




#15
Methyl Acetate
Concen: 20.000 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.01 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

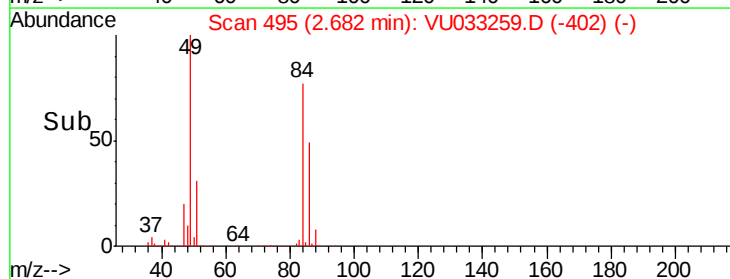
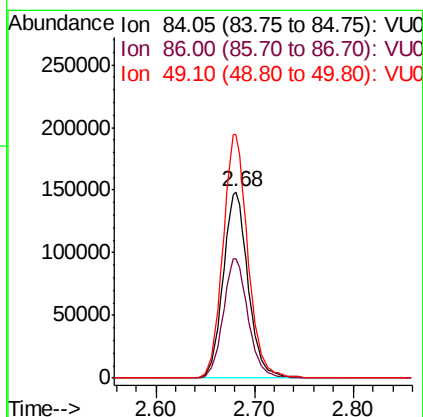
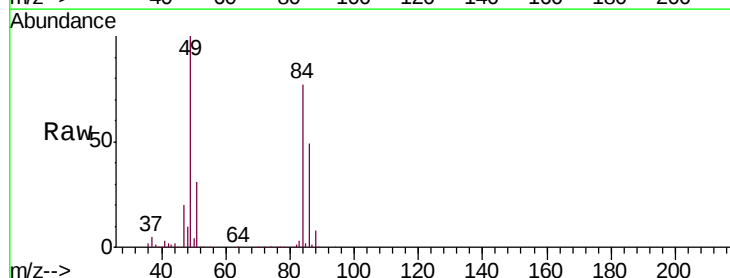
Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

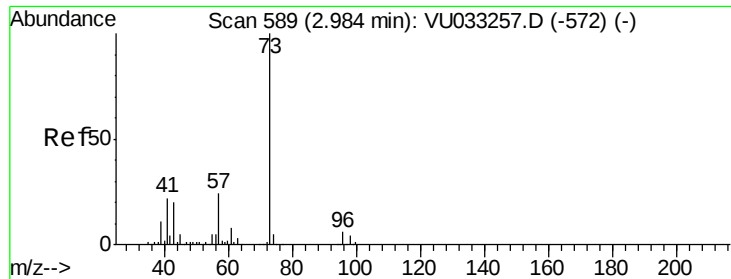
Tgt Ion: 43 Resp: 116041
Ion Ratio Lower Upper
43 100
74 23.6 17.8 26.8



#16
Methylene chloride
Concen: 22.955 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Tgt Ion: 84 Resp: 263029
Ion Ratio Lower Upper
84 100
86 64.3 42.5 78.9
49 130.7 86.9 161.3

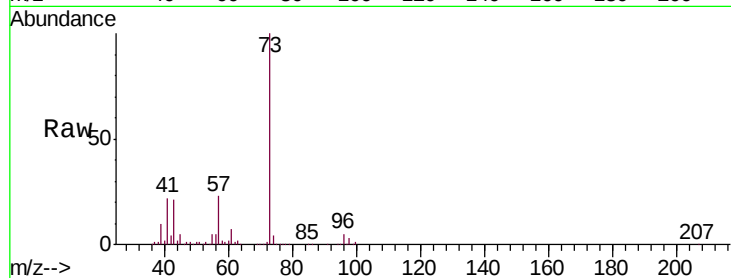




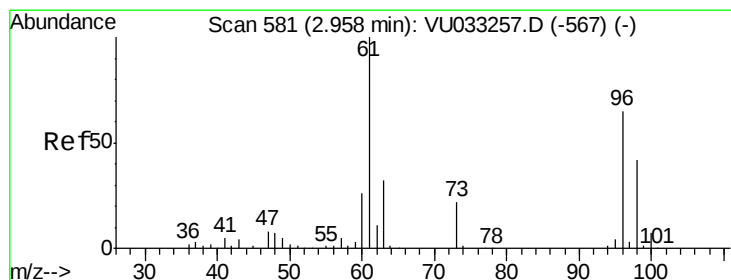
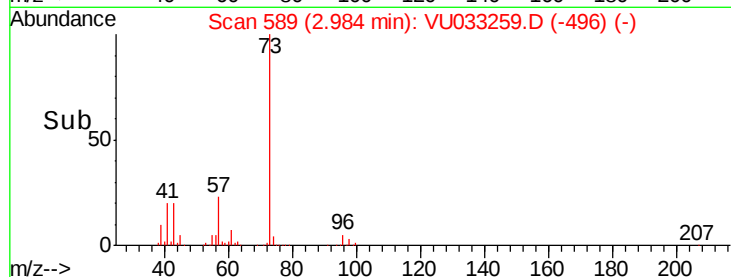
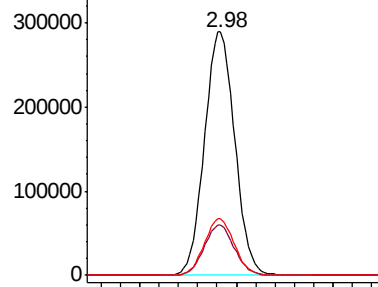
#17
Methyl tert-butyl Ether
Concen: 22.686 ug/L
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

Tgt Ion: 73 Resp: 629469
Ion Ratio Lower Upper
73 100
43 20.4 16.3 24.5
57 23.0 18.6 28.0

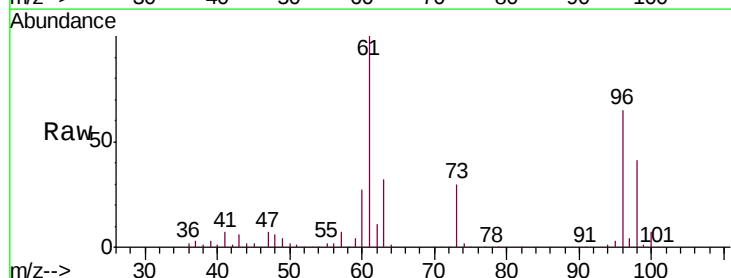


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

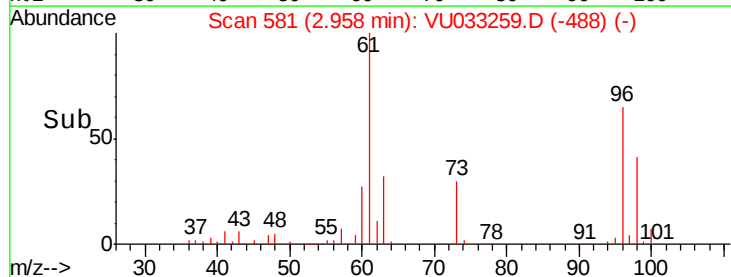
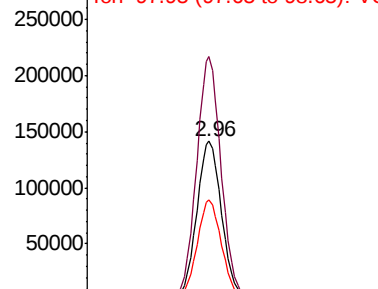


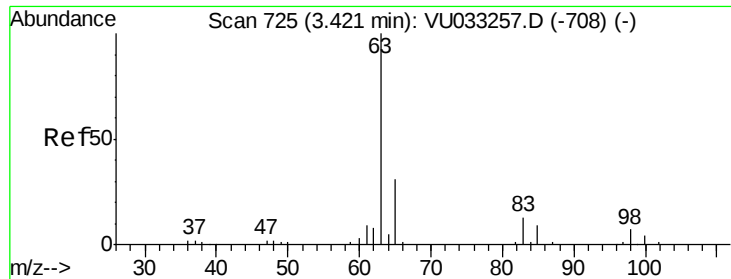
#18
trans-1,2-Dichloroethene
Concen: 23.738 ug/L
RT: 2.96 min Scan# 581
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Tgt Ion: 96 Resp: 254408
Ion Ratio Lower Upper
96 100
61 153.0 107.1 198.9
98 63.2 45.4 84.4



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

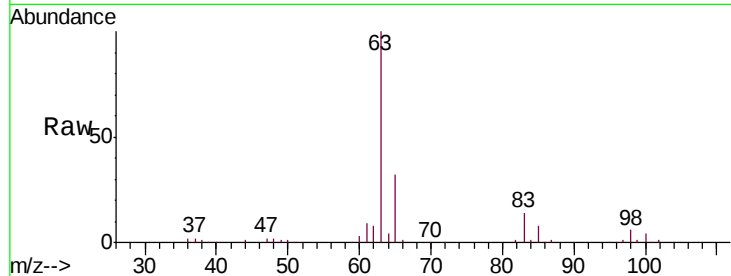




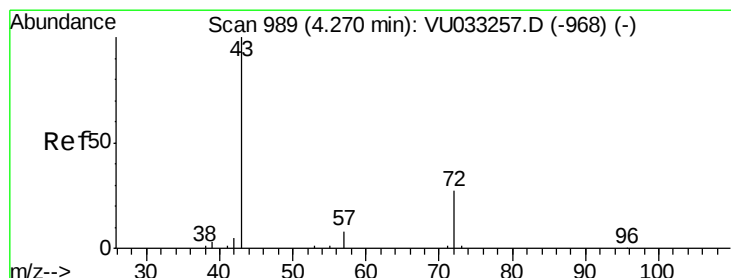
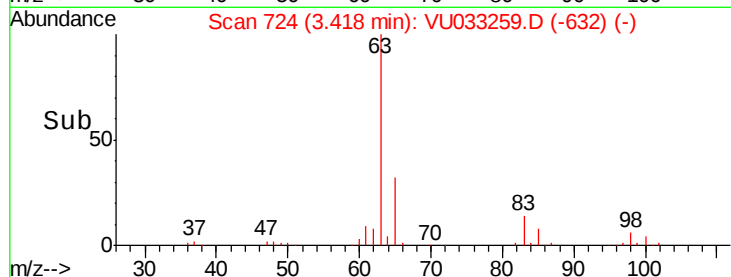
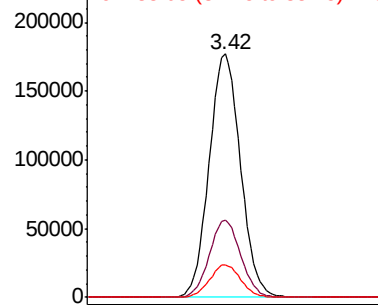
#19
 1,1-Dichloroethane
 Concen: 19.145 ug/L
 RT: 3.42 min Scan# 724
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

Tgt Ion: 63 Resp: 387836
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.7 40.3
 83 13.5 9.0 16.8

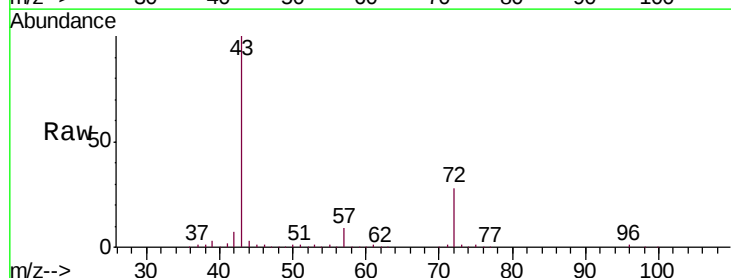


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

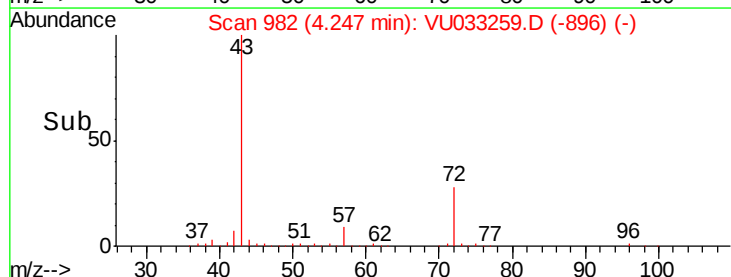
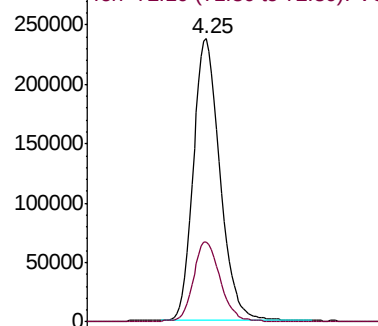


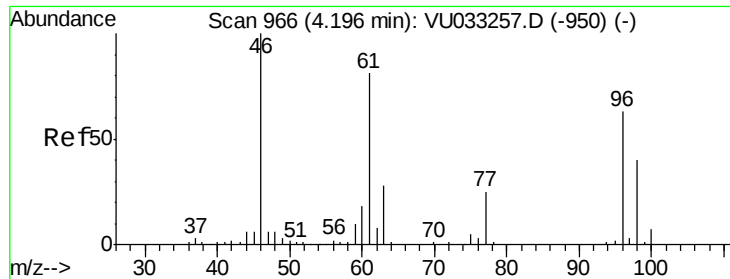
#21
 2-Butanone
 Concen: 170.762 ug/L
 RT: 4.25 min Scan# 982
 Delta R.T. -0.02 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

Tgt Ion: 43 Resp: 569339
 Ion Ratio Lower Upper
 43 100
 72 29.1 13.5 40.4



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



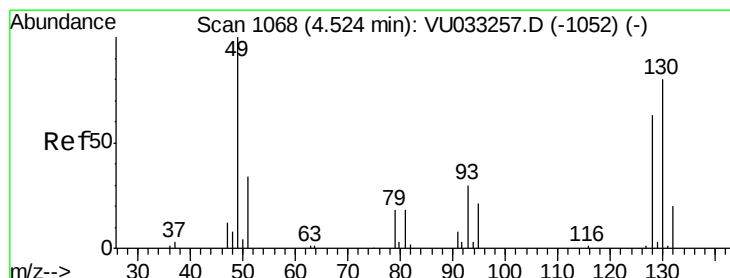
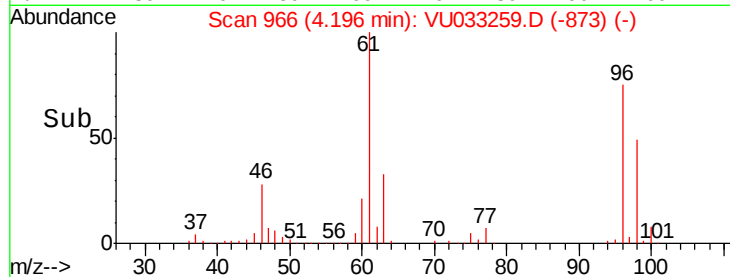
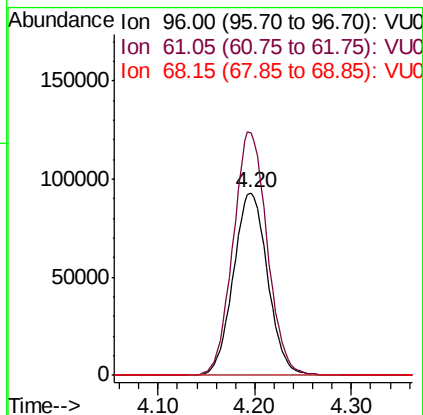
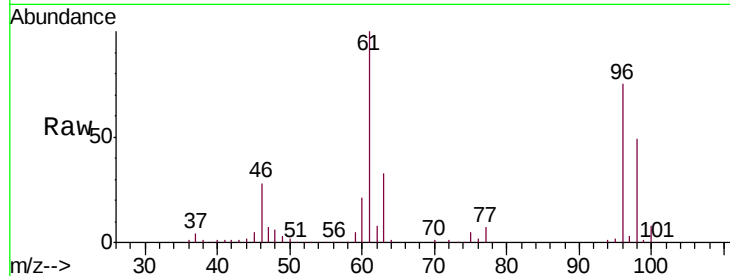


#22

cis-1,2-Dichloroethene
 Concen: 20.571 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

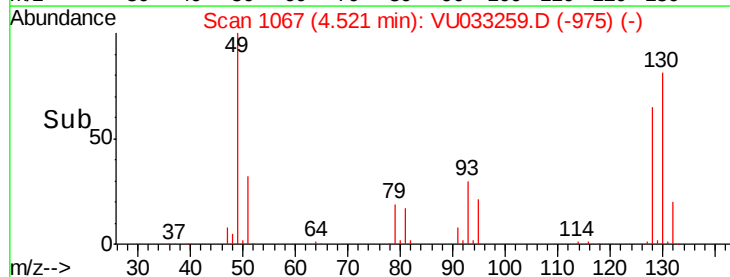
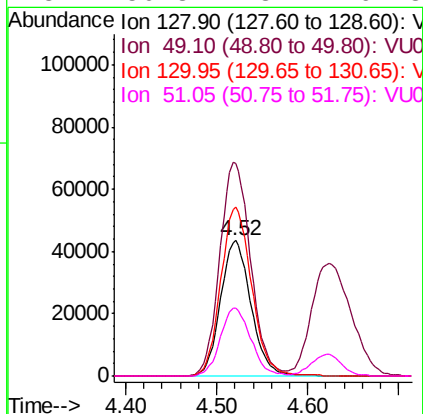
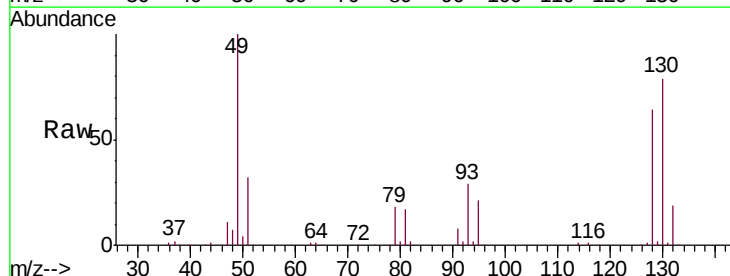
Tgt Ion: 96 Resp: 229097
 Ion Ratio Lower Upper
 96 100
 61 132.9 89.2 165.6
 68 0.0 0.0 0.0

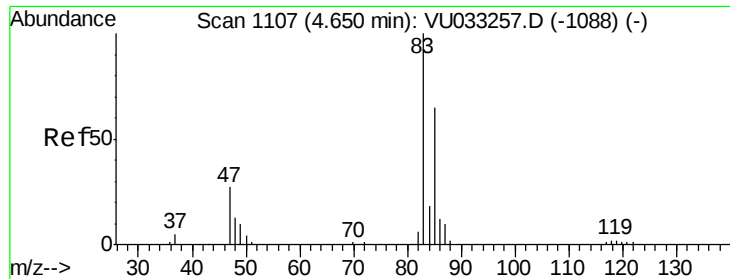


#23

Bromochloromethane
 Concen: 19.653 ug/L
 RT: 4.52 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

Tgt Ion: 128 Resp: 101289
 Ion Ratio Lower Upper
 128 100
 49 157.1 110.5 205.3
 130 124.5 88.6 164.6
 51 50.3 43.2 64.8

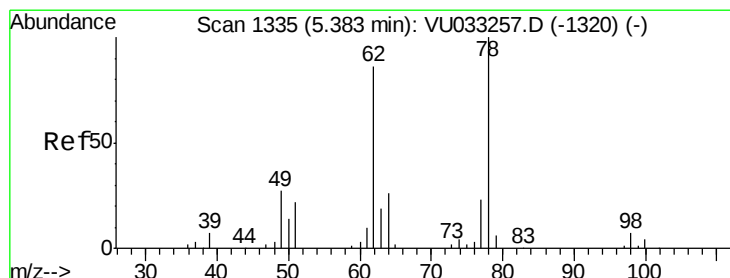
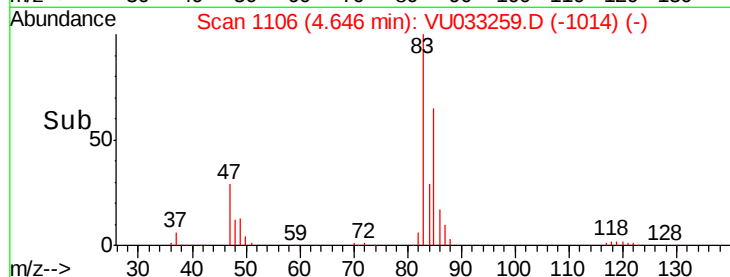
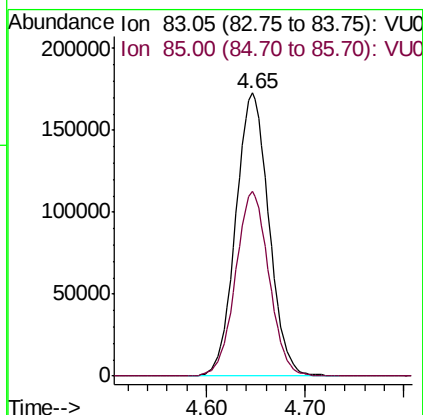
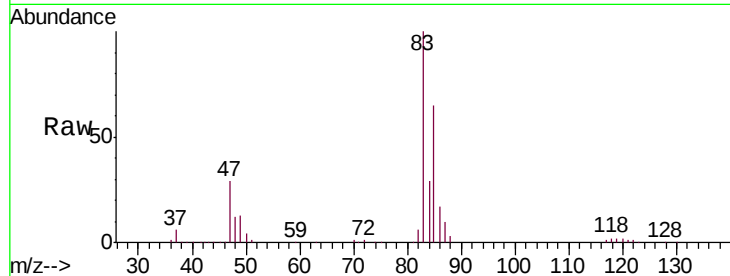




#25
Chloroform
Concen: 18.010 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

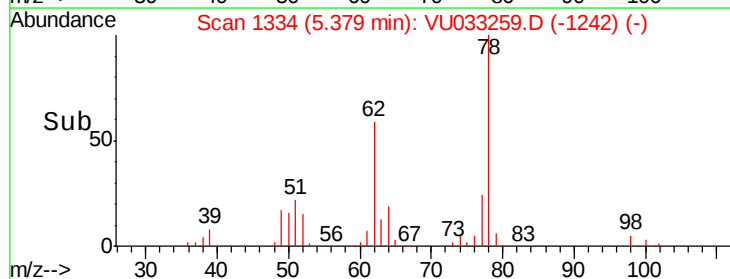
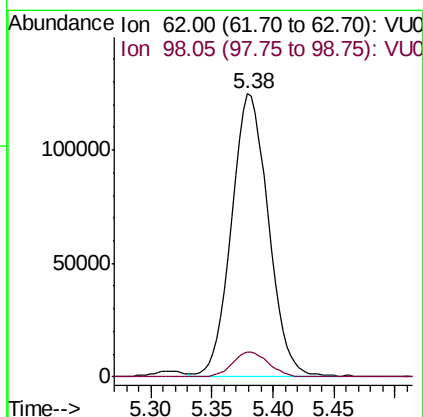
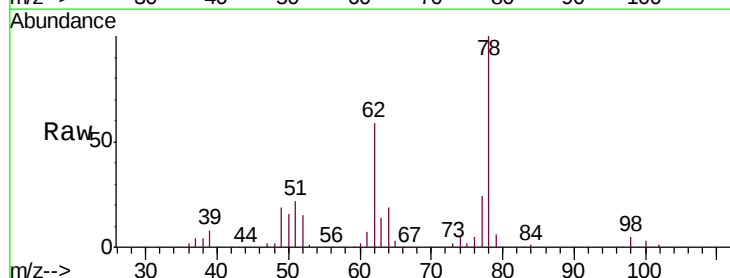
Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

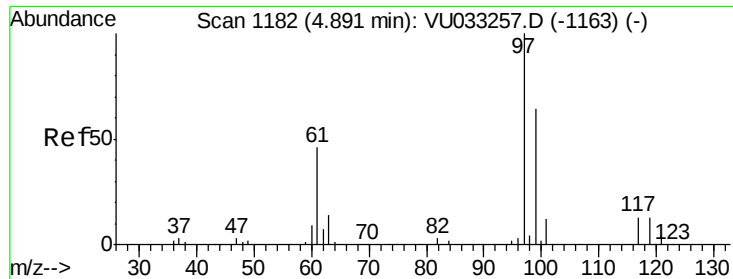
Tgt Ion: 83 Resp: 403045
Ion Ratio Lower Upper
83 100
85 65.2 45.4 84.4



#27
1,2-Dichloroethane
Concen: 18.151 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Tgt Ion: 62 Resp: 260950
Ion Ratio Lower Upper
62 100
98 8.6 6.6 10.0

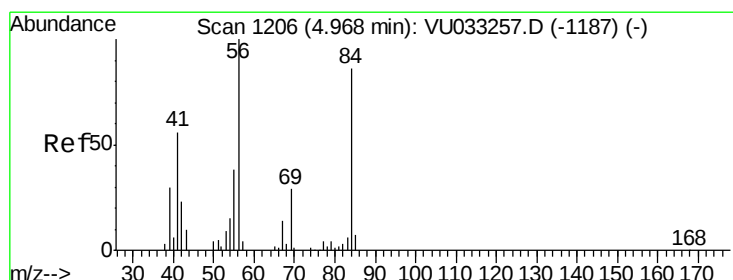
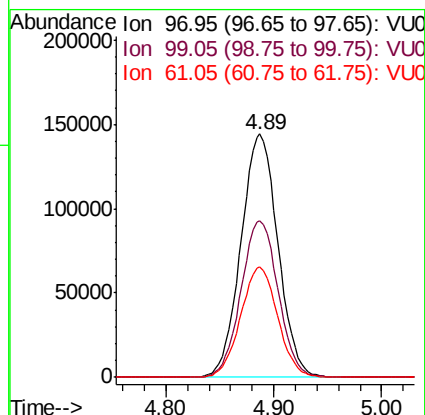
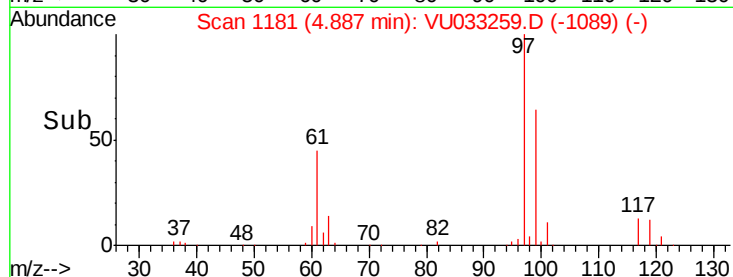
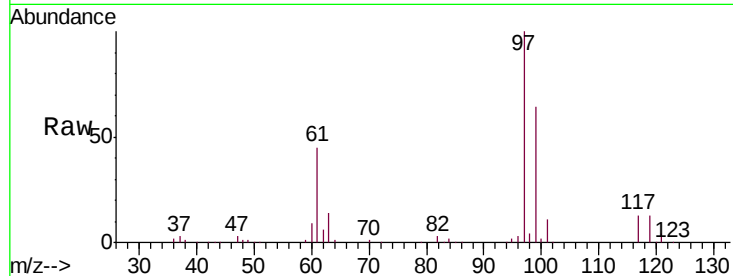




#29
1,1,1-Trichloroethane
Concen: 18.718 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

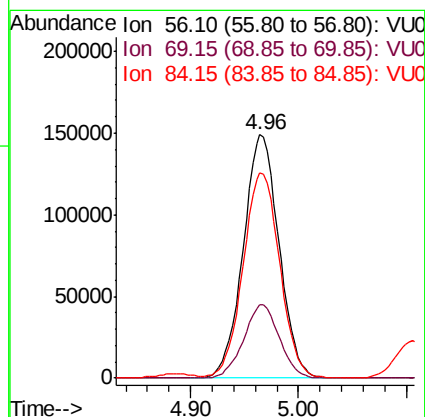
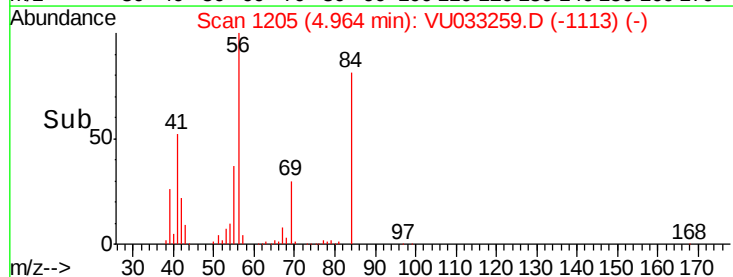
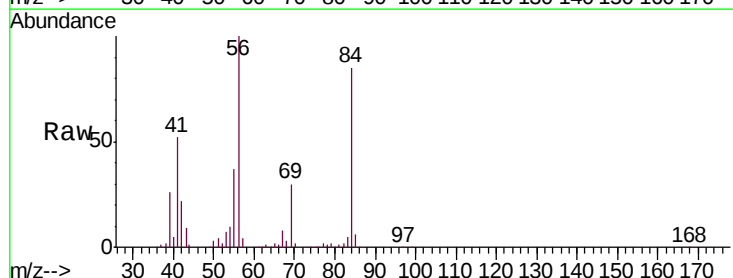
Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

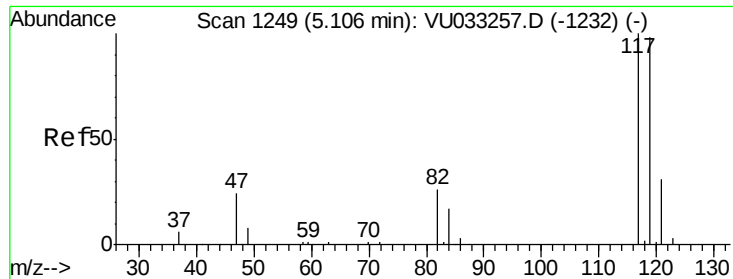
Tgt Ion: 97 Resp: 344352
Ion Ratio Lower Upper
97 100
99 64.9 51.6 77.4
61 45.5 36.2 54.4



#30
Cyclohexane
Concen: 20.573 ug/L
RT: 4.96 min Scan# 1205
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Tgt Ion: 56 Resp: 343550
Ion Ratio Lower Upper
56 100
69 30.2 23.9 35.9
84 86.7 69.5 104.3

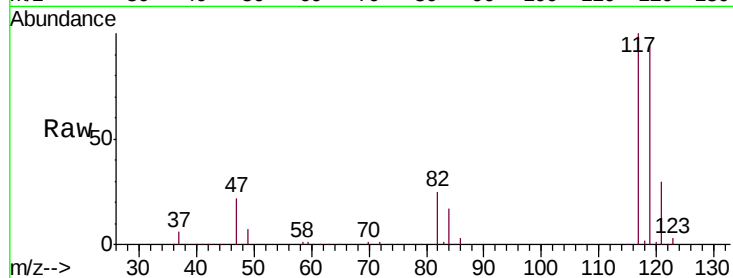




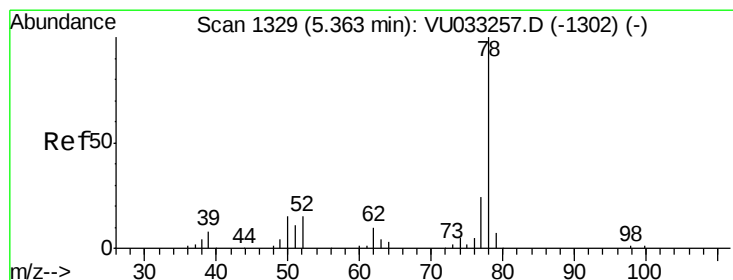
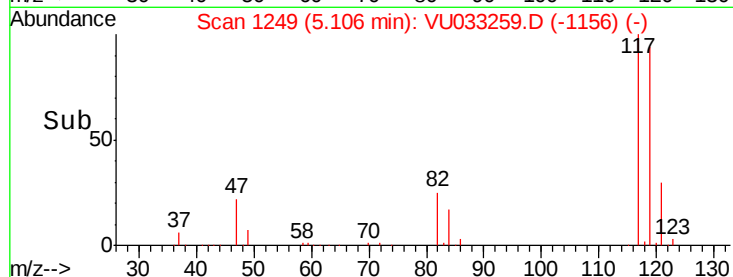
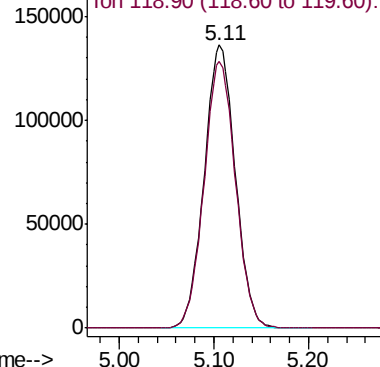
#31
Carbon tetrachloride
Concen: 18.883 ug/L
RT: 5.11 min Scan# 1249
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

Tgt Ion:117 Resp: 310636
Ion Ratio Lower Upper
117 100
119 95.6 77.5 116.3

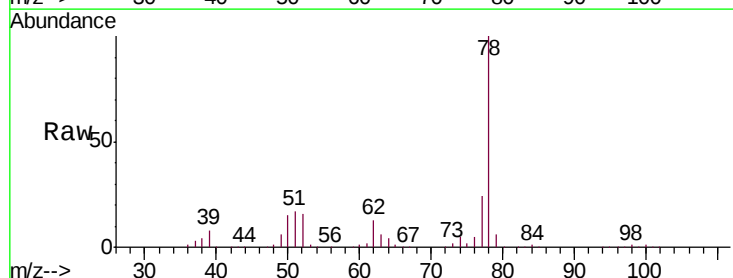


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

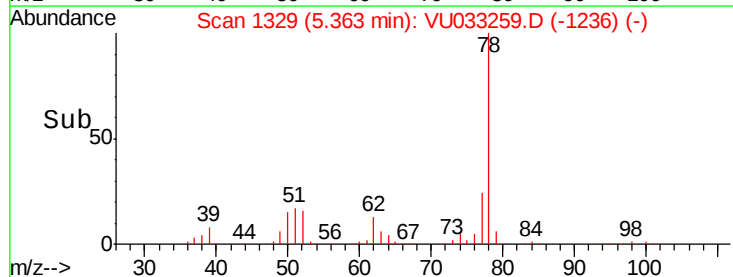
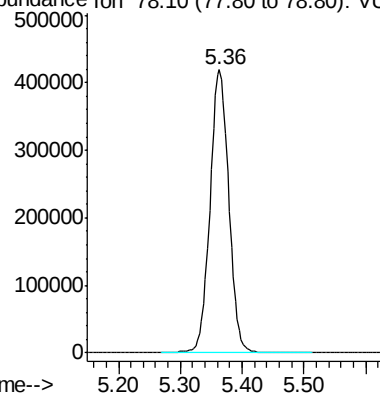


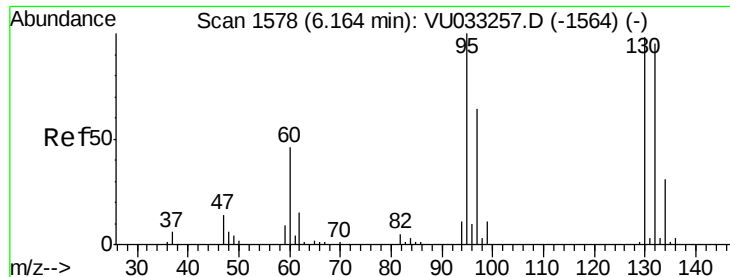
#33
Benzene
Concen: 20.771 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Tgt Ion: 78 Resp: 885318



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 19.700 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

Tgt Ion: 95 Resp: 226667

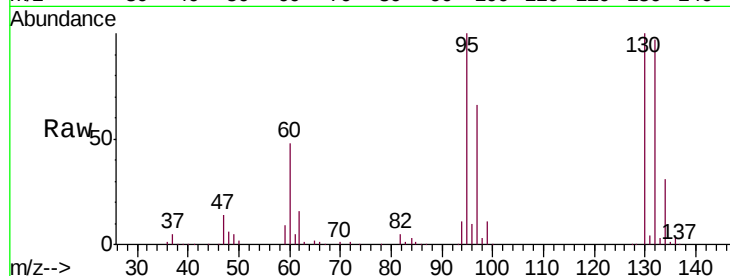
Ion Ratio Lower Upper

95 100

97 65.5 44.5 82.7

132 96.8 66.6 123.8

130 99.7 68.9 127.9

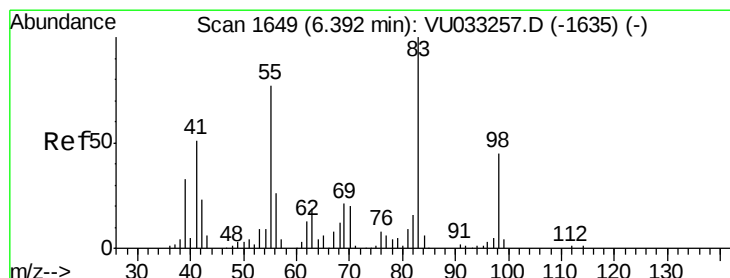
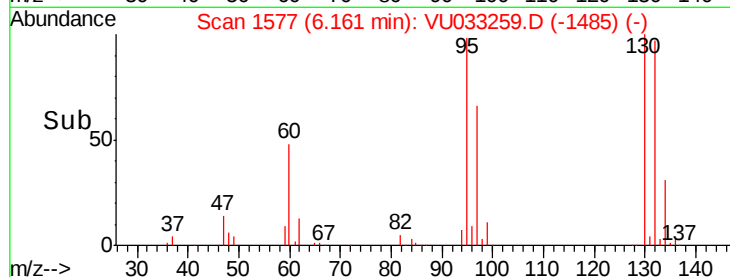
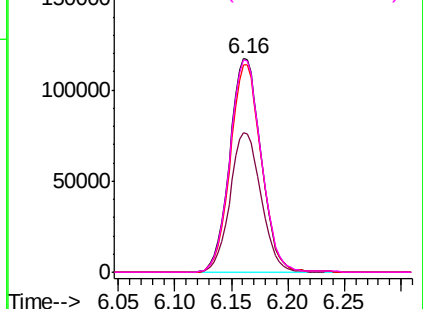


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 22.108 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

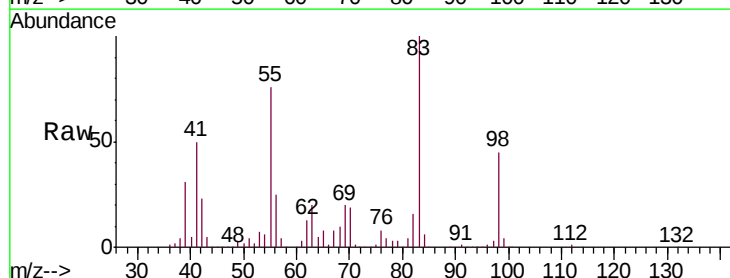
Tgt Ion: 83 Resp: 379908

Ion Ratio Lower Upper

83 100

55 76.1 62.6 94.0

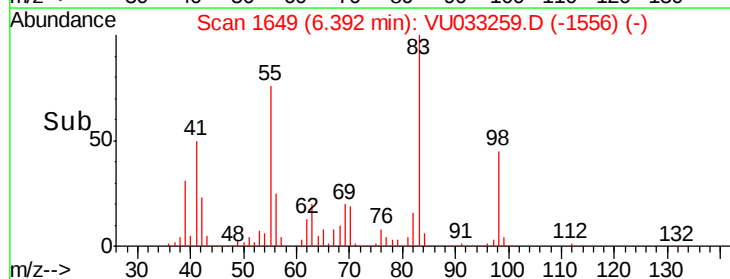
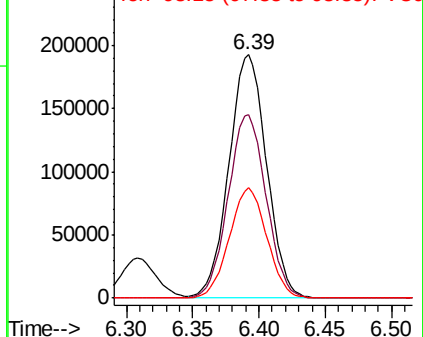
98 45.2 36.2 54.2

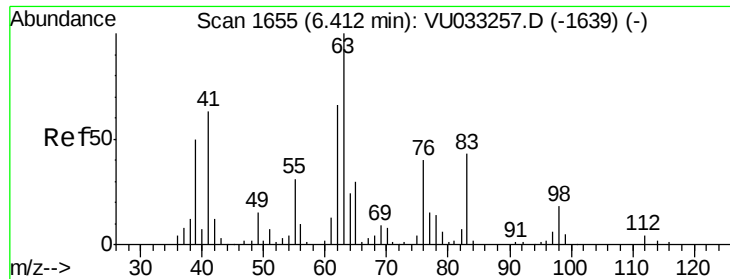


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

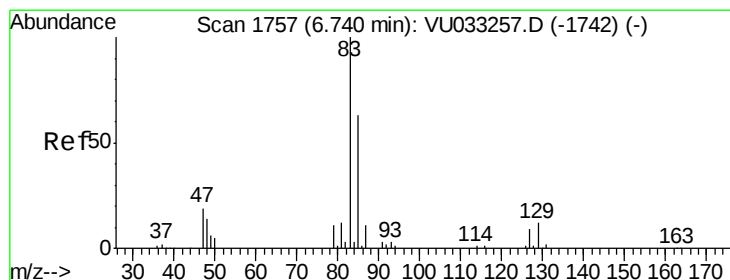
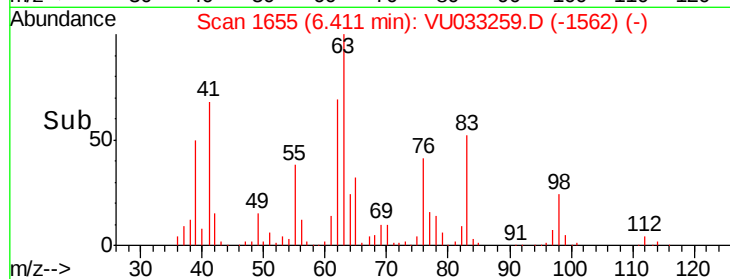
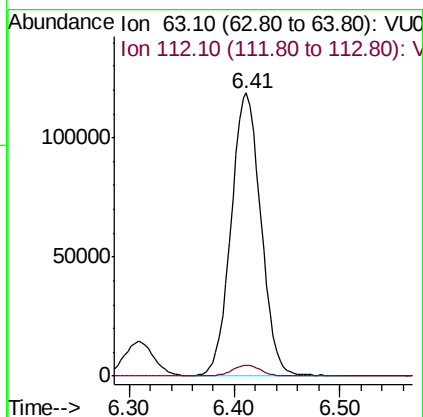
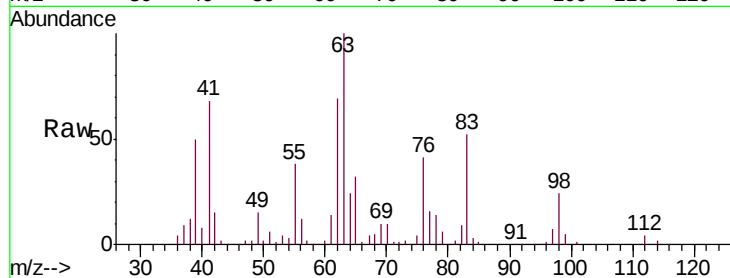




#37
 1,2-Dichloropropane
 Concen: 19.878 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

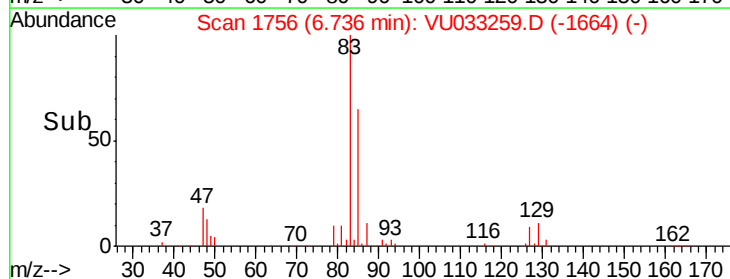
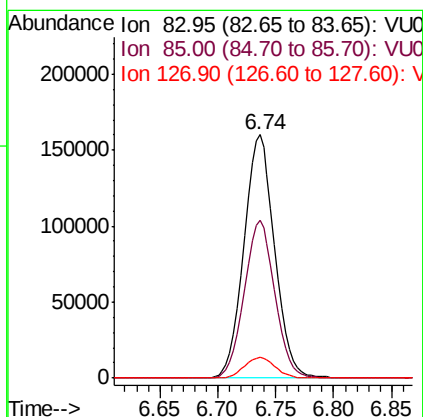
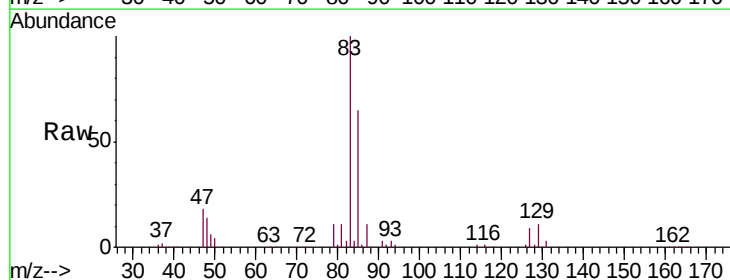
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

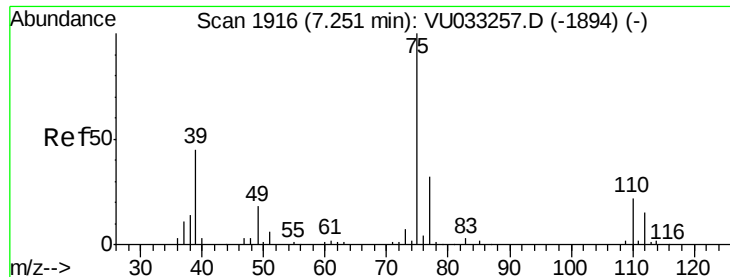
Tgt Ion: 63 Resp: 231872
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.1 4.7



#38
 Bromodichloromethane
 Concen: 19.411 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

Tgt Ion: 83 Resp: 294518
 Ion Ratio Lower Upper
 83 100
 85 64.7 44.0 81.8
 127 8.6 7.0 10.4

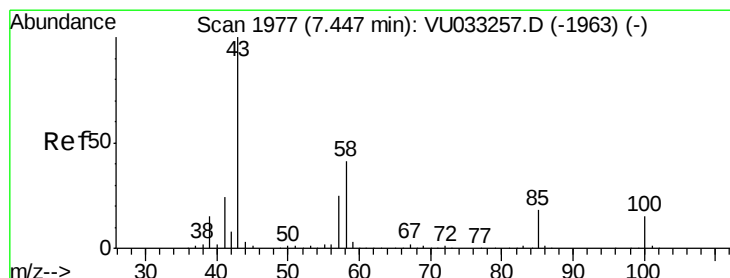
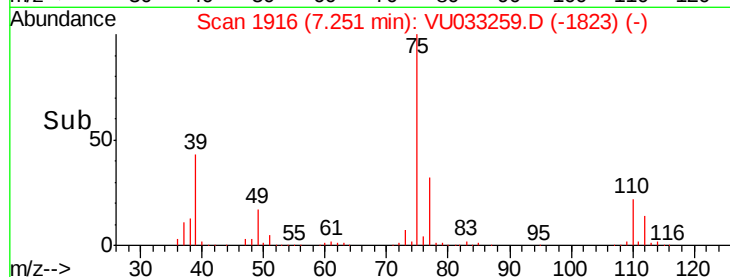
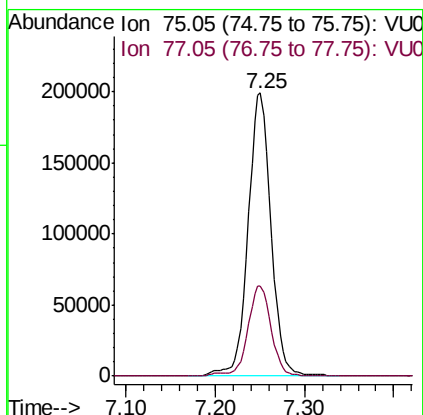
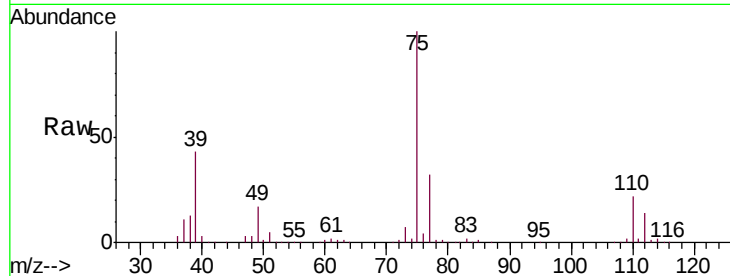




#39
 cis-1,3-Dichloropropene
 Concen: 21.710 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

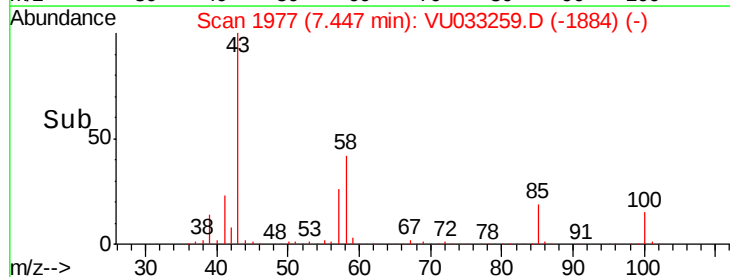
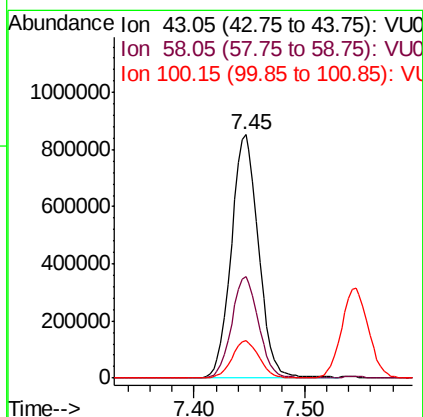
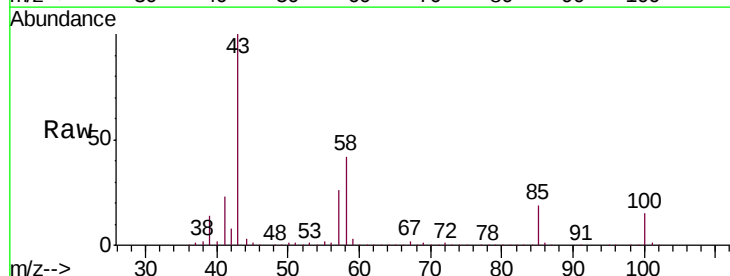
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

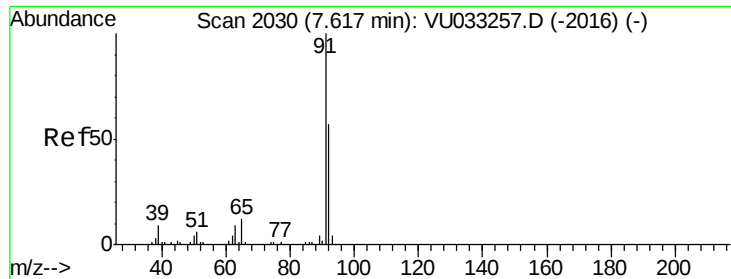
Tgt Ion: 75 Resp: 357186
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 185.866 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

Tgt Ion: 43 Resp: 1458272
 Ion Ratio Lower Upper
 43 100
 58 41.2 32.4 48.6
 100 15.5 11.9 17.9





#42

Toluene

Concen: 21.582 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

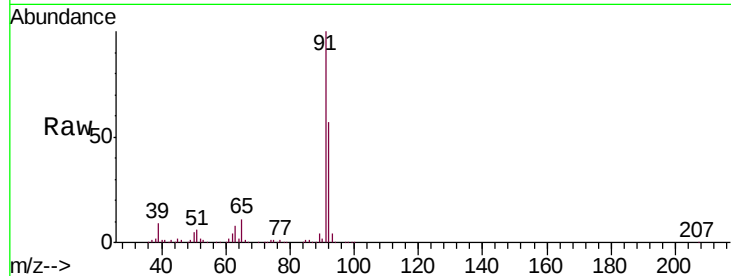
VSTD02001

Tgt Ion: 91 Resp: 989774

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU033257.D (-2016) (-)

Ion 92.15 (91.85 to 92.85): VU033259.D (-1937) (-)

7.62

600000

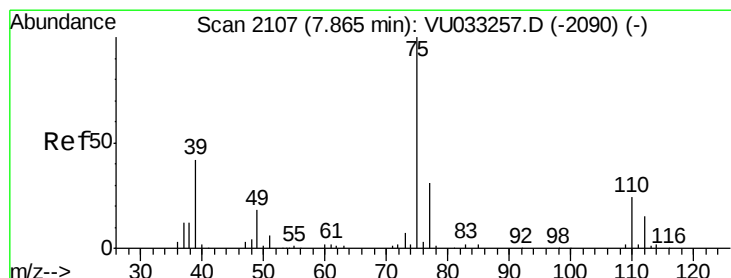
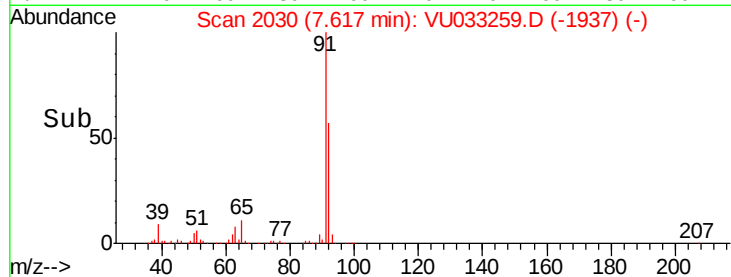
400000

200000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 21.113 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033259.D

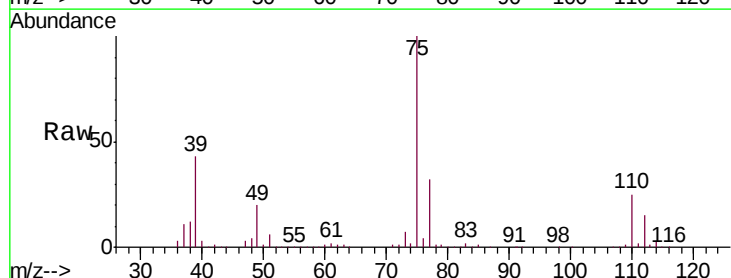
Acq: 16 Jul 2019 10:51

Tgt Ion: 75 Resp: 289464

Ion Ratio Lower Upper

75 100

77 32.5 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU033257.D (-2090) (-)

Ion 77.05 (76.75 to 77.75): VU033259.D (-2104) (-)

7.86

200000

150000

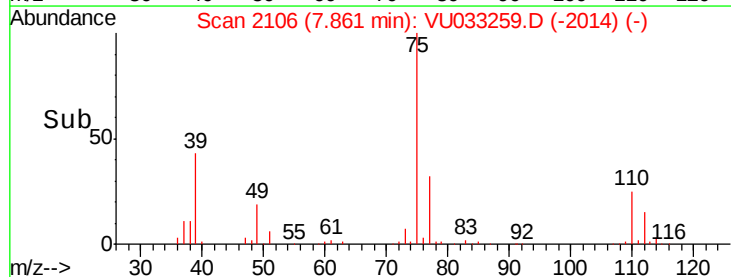
100000

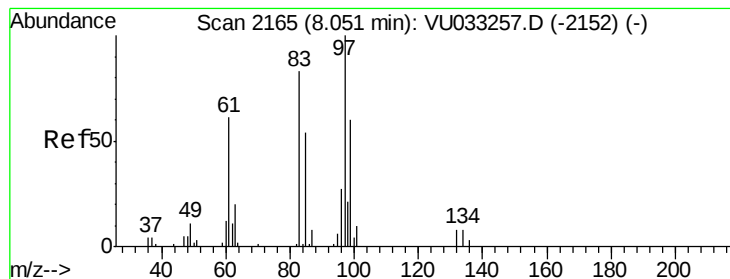
50000

0

7.80 7.90 8.00

Time-->





#45

1,1,2-Trichloroethane

Concen: 20.116 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

Tgt Ion: 97 Resp: 164865

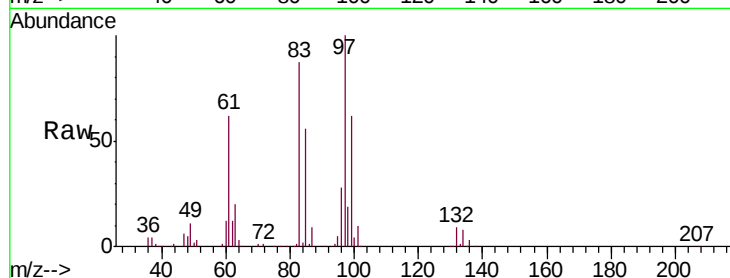
Ion Ratio Lower Upper

97 100

99 62.3 42.3 78.5

83 87.5 58.0 107.6

85 56.4 37.8 70.2

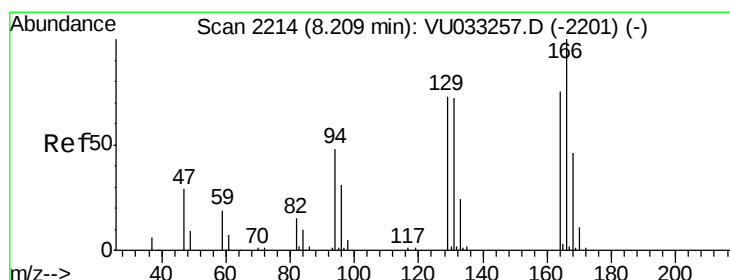
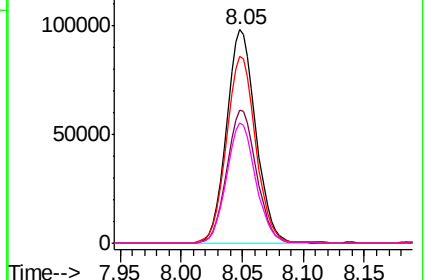
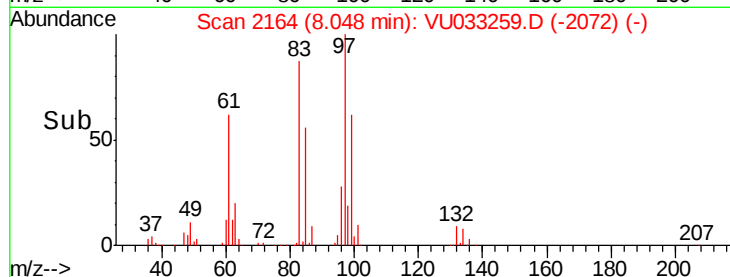


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 19.264 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Tgt Ion: 164 Resp: 182566

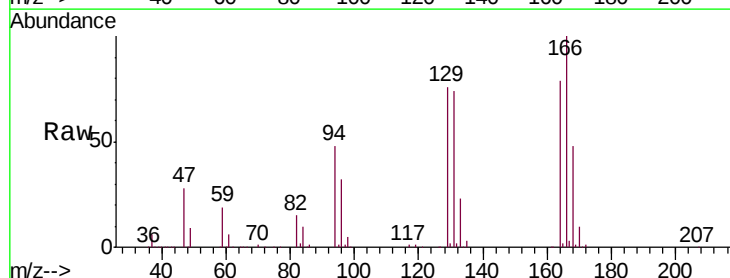
Ion Ratio Lower Upper

164 100

129 97.0 68.5 127.1

131 94.7 67.3 124.9

166 127.3 93.1 172.9

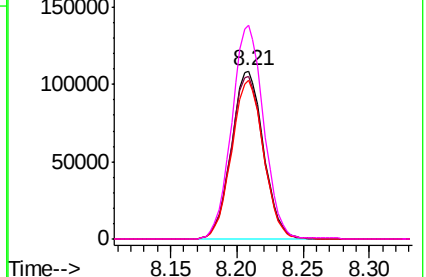
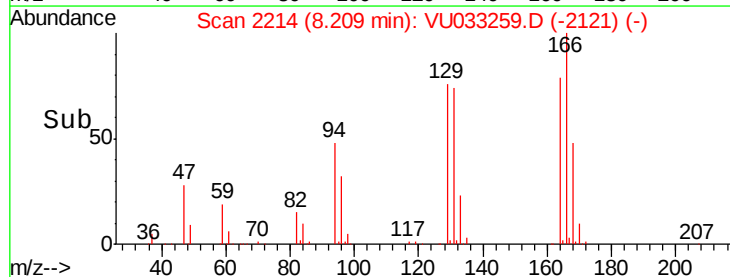


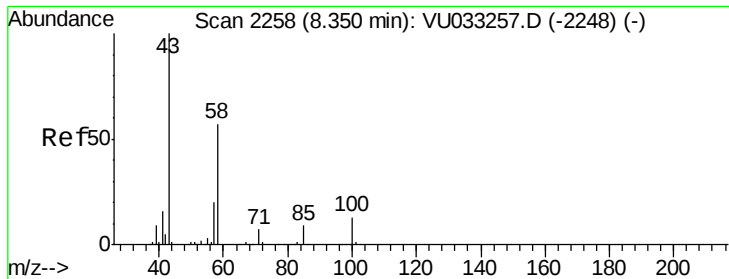
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

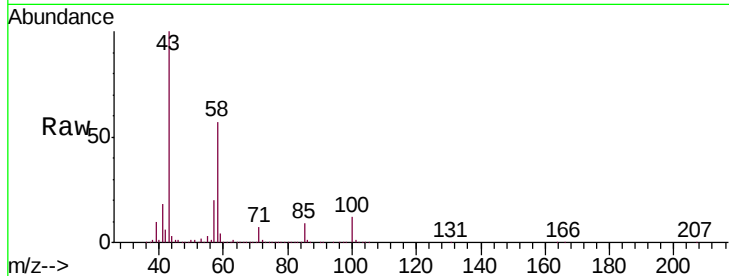




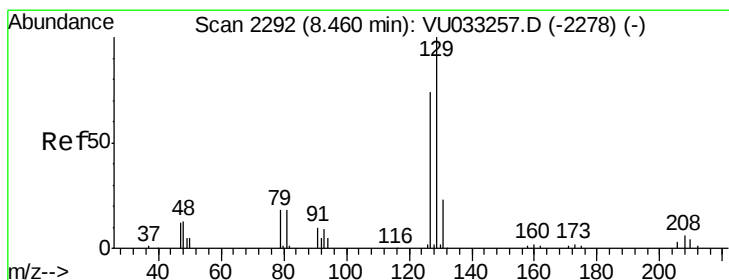
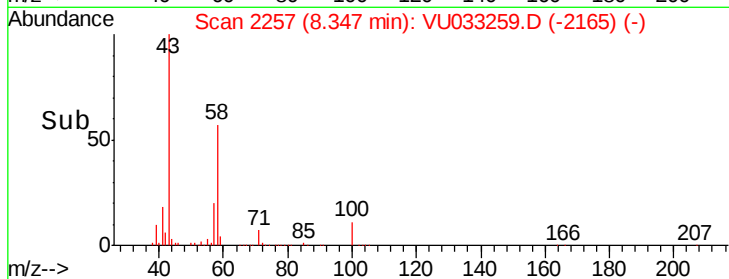
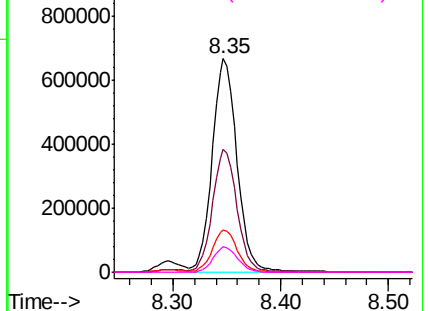
#48
2-Hexanone
Concen: 184.821 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

Tgt Ion: 43 Resp: 1057535
Ion Ratio Lower Upper
43 100
58 57.3 44.1 66.1
57 19.7 15.8 23.8
100 12.0 9.4 14.2

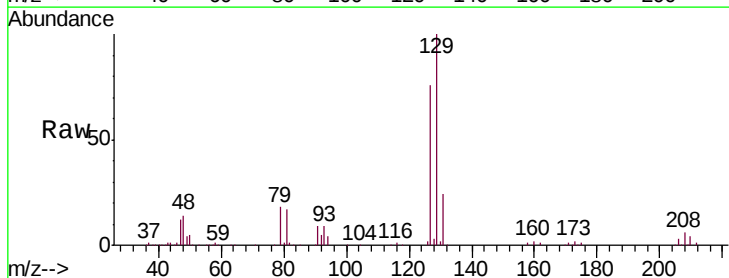


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

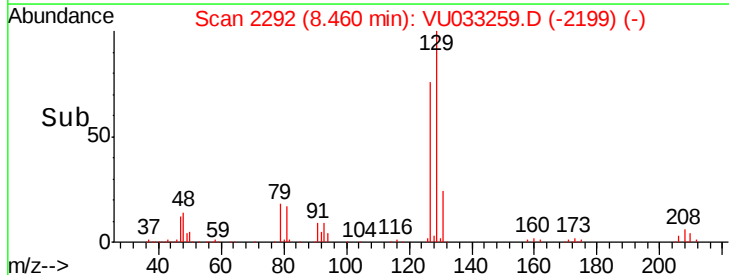
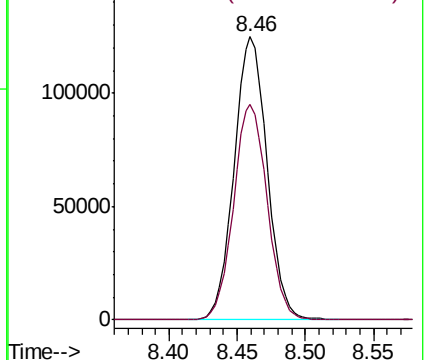


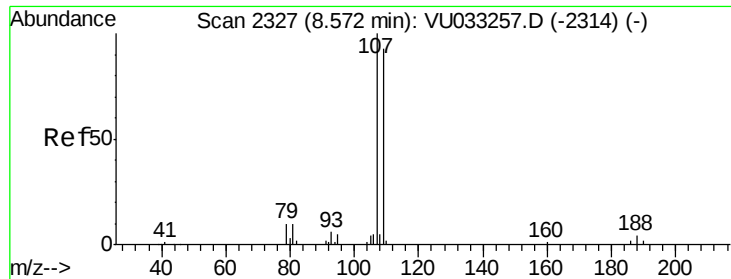
#49
Dibromochloromethane
Concen: 20.403 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Tgt Ion: 129 Resp: 209751
Ion Ratio Lower Upper
129 100
127 75.9 51.9 96.5



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

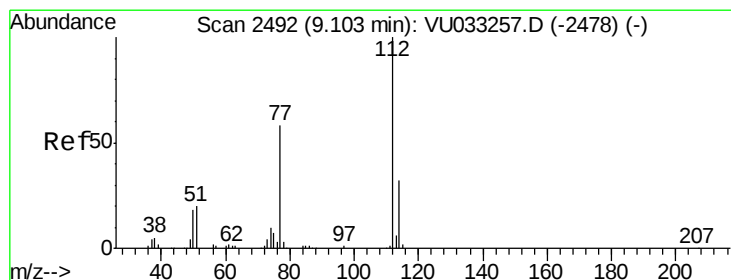
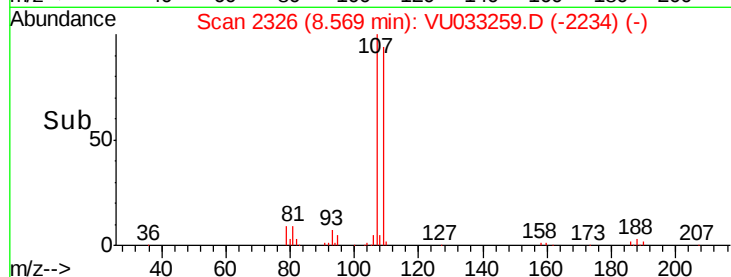
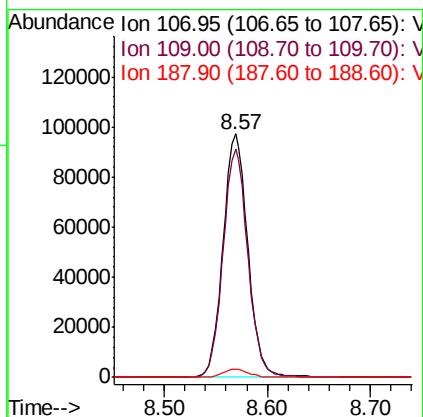
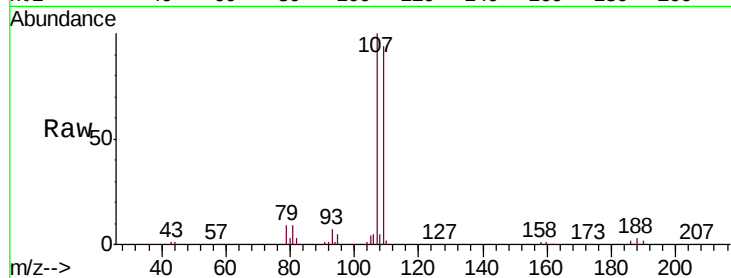




#50
1,2-Dibromoethane
Concen: 20.710 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

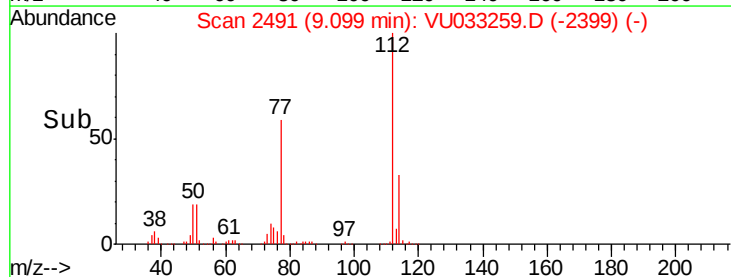
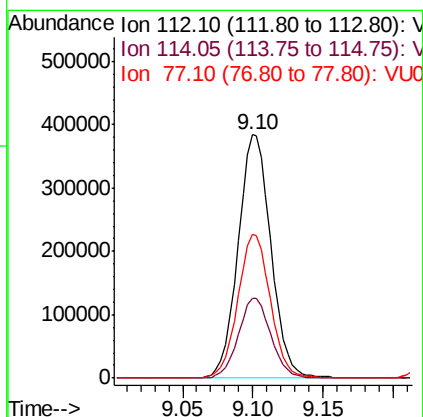
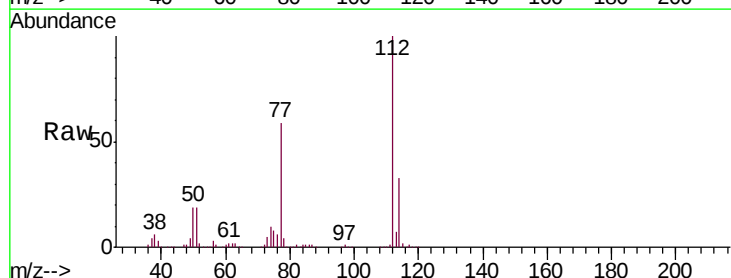
Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

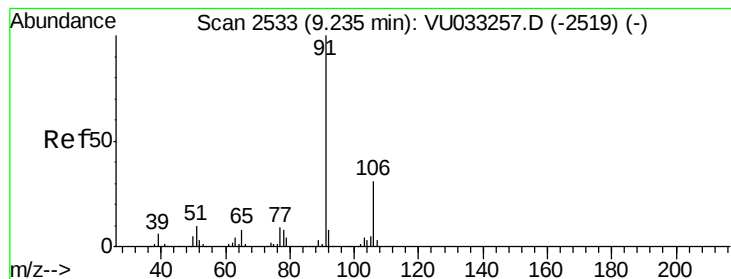
Tgt Ion:107 Resp: 162898
Ion Ratio Lower Upper
107 100
109 93.5 64.8 120.4
188 3.5 3.0 4.6



#51
Chlorobenzene
Concen: 20.678 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Tgt Ion:112 Resp: 625772
Ion Ratio Lower Upper
112 100
114 33.0 22.1 41.1
77 58.9 46.9 70.3





#52

Ethylbenzene

Concen: 22.040 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

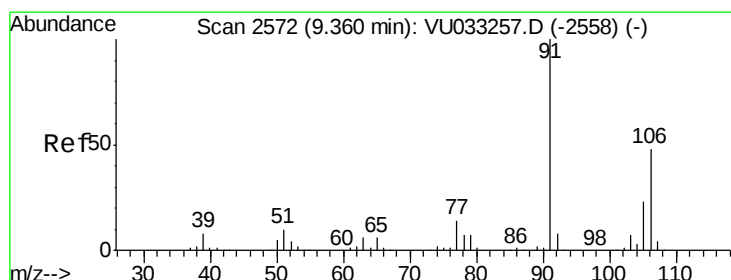
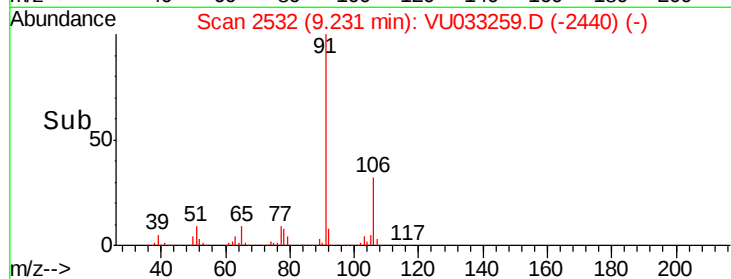
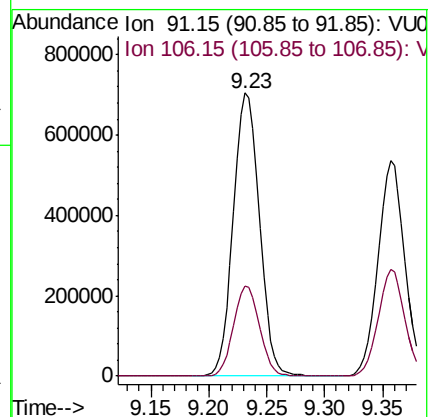
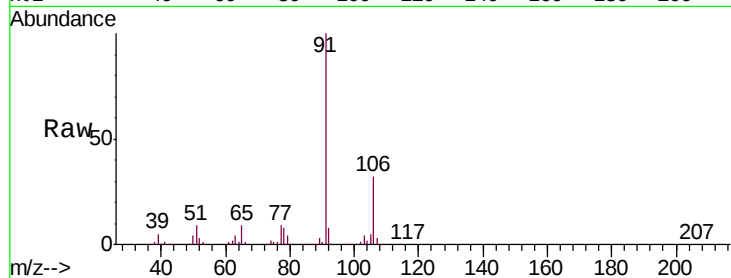
VSTD02001

Tgt Ion: 91 Resp: 1105367

Ion Ratio Lower Upper

91 100

106 31.7 21.6 40.2



#53

m,p-Xylene

Concen: 23.024 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033259.D

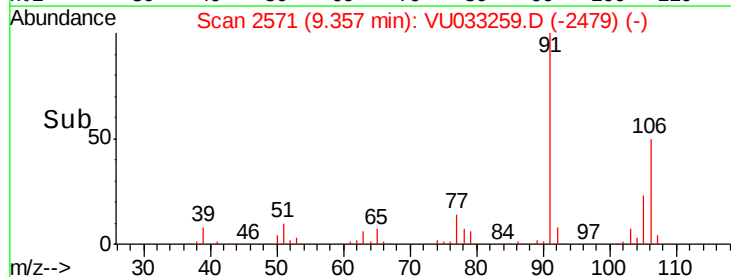
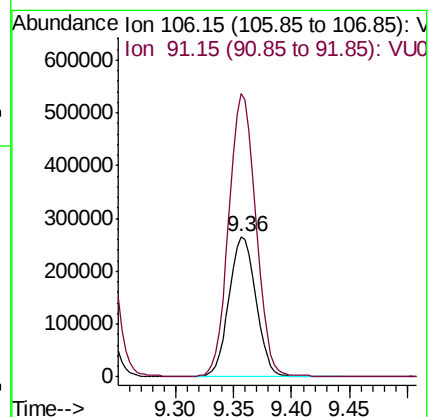
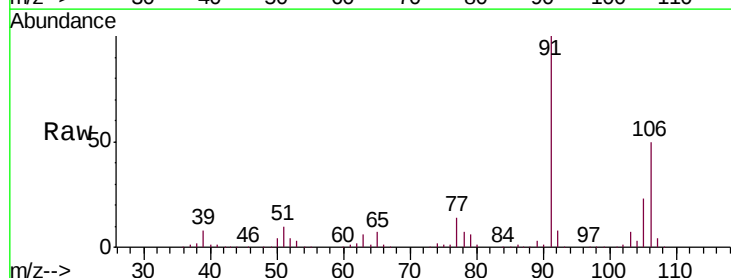
Acq: 16 Jul 2019 10:51

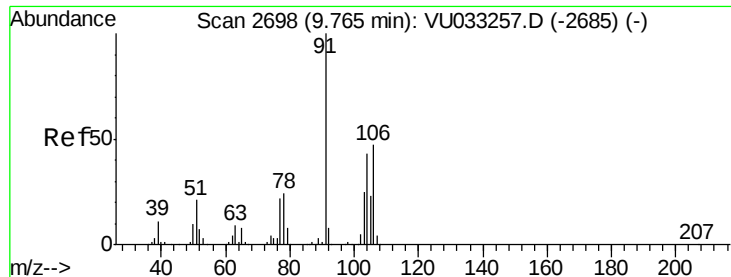
Tgt Ion: 106 Resp: 424800

Ion Ratio Lower Upper

106 100

91 202.0 147.6 274.0

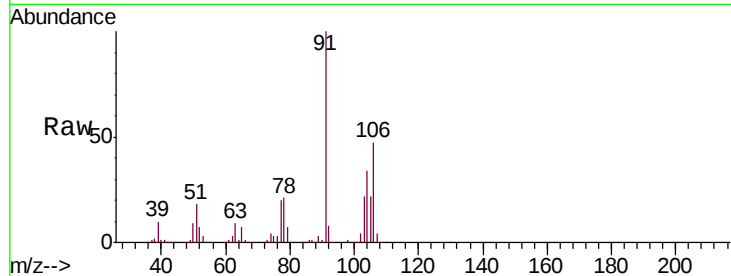




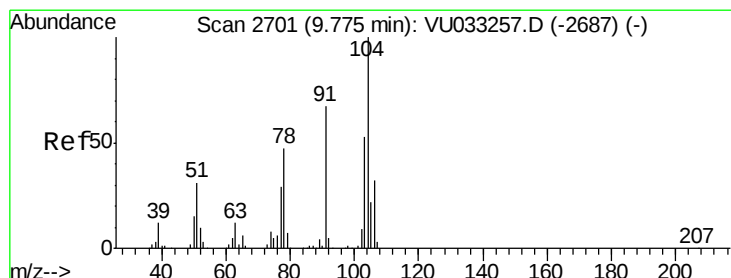
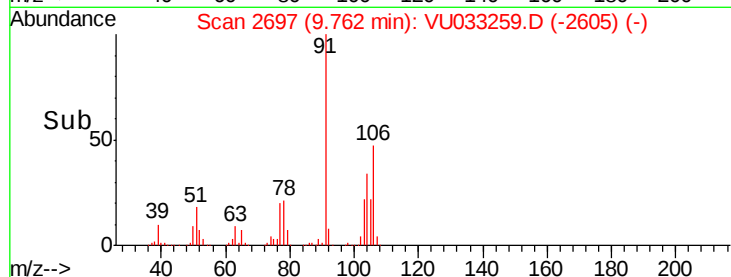
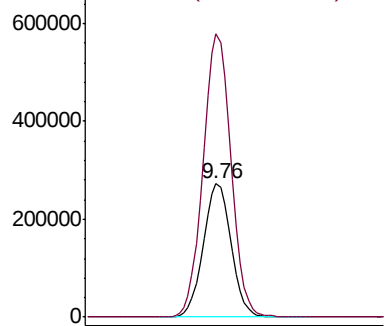
#54
o-Xylene
Concen: 23.408 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

Tgt Ion:106 Resp: 420120
Ion Ratio Lower Upper
106 100
91 212.3 148.5 275.7

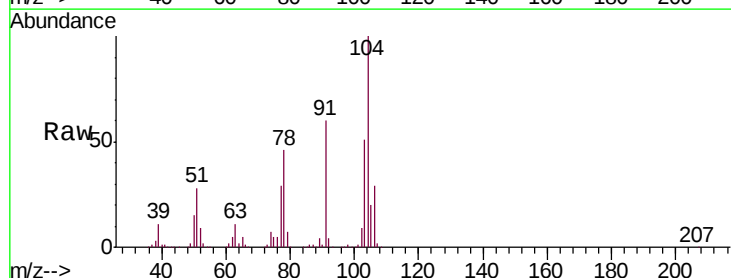


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

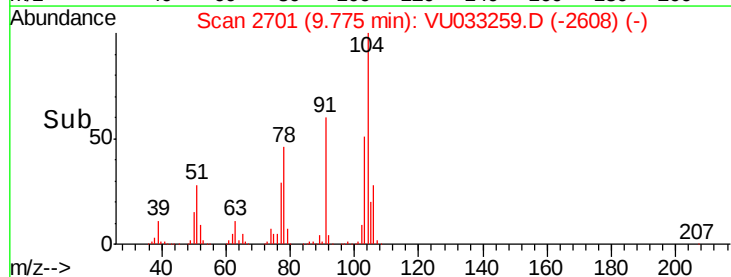
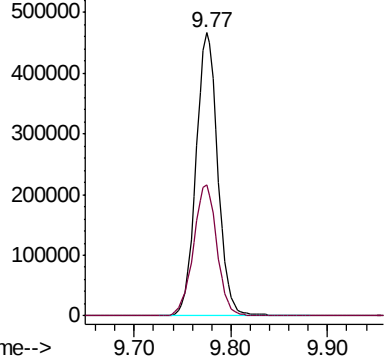


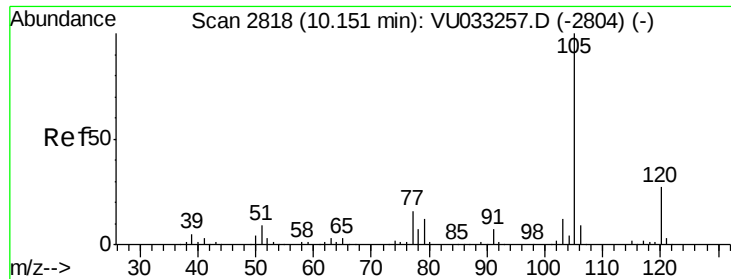
#55
Styrene
Concen: 23.962 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Tgt Ion:104 Resp: 729236
Ion Ratio Lower Upper
104 100
78 46.1 32.8 60.8



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





#56

Isopropylbenzene

Concen: 23.110 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

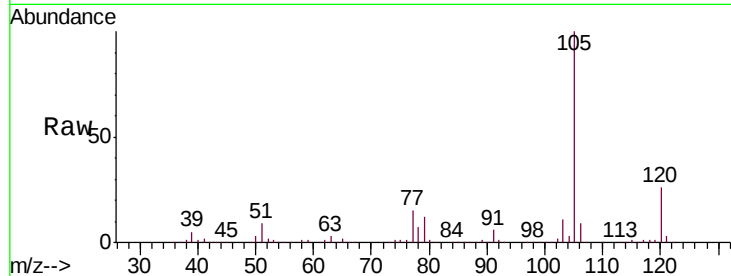
Tgt Ion:105 Resp: 1107286

Ion Ratio Lower Upper

105 100

120 26.6 21.3 31.9

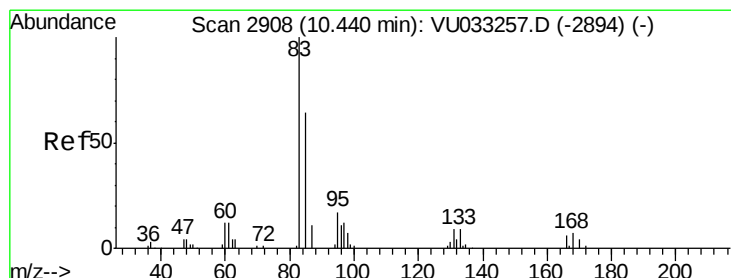
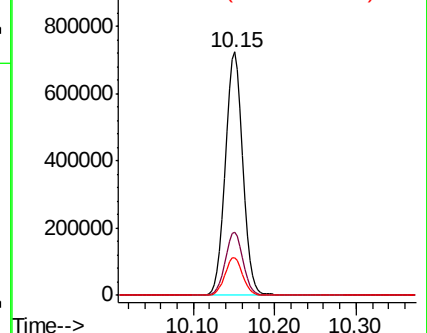
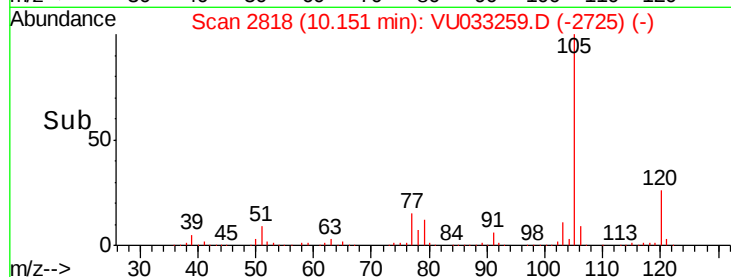
77 15.6 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 21.163 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

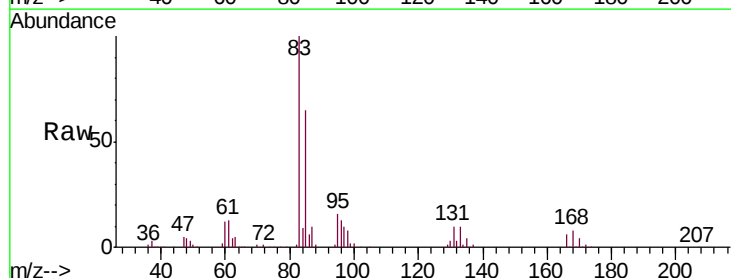
Tgt Ion: 83 Resp: 222499

Ion Ratio Lower Upper

83 100

85 64.7 44.6 82.8

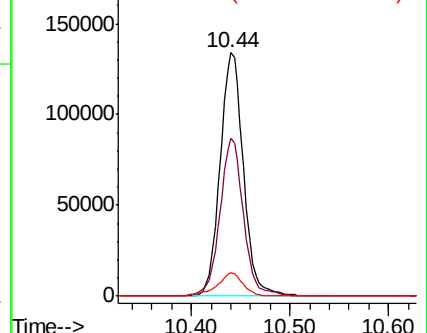
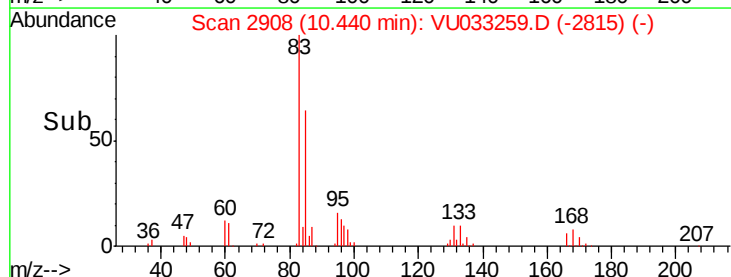
131 9.8 7.4 11.2

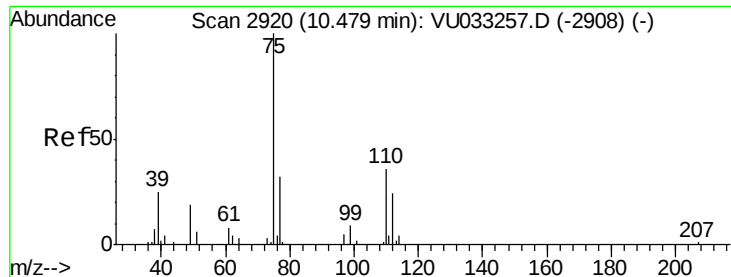


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 19.698 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

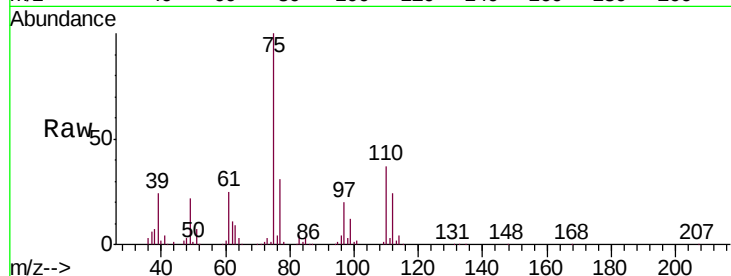
VSTD02001

Tgt Ion: 75 Resp: 156327

Ion Ratio Lower Upper

75 100

77 32.1 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VU033257.D (-2908) (-)

Ion 77.00 (76.70 to 77.70): VU033257.D (-2908) (-)

10.48

100000

80000

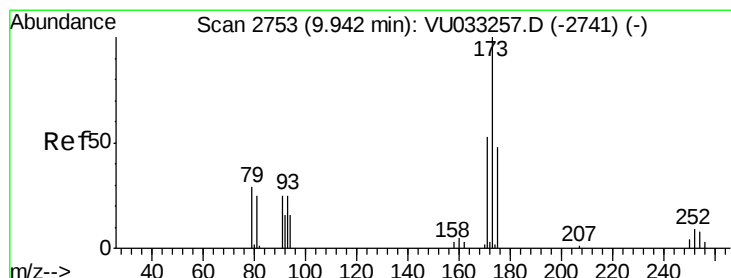
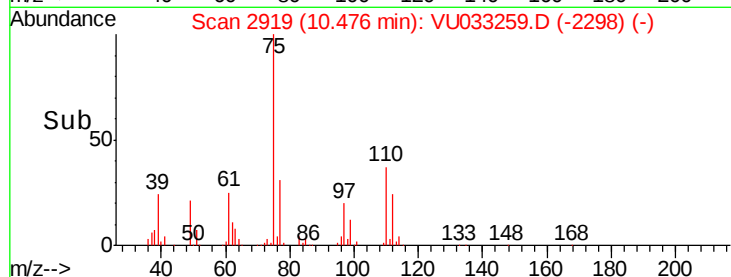
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 20.699 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

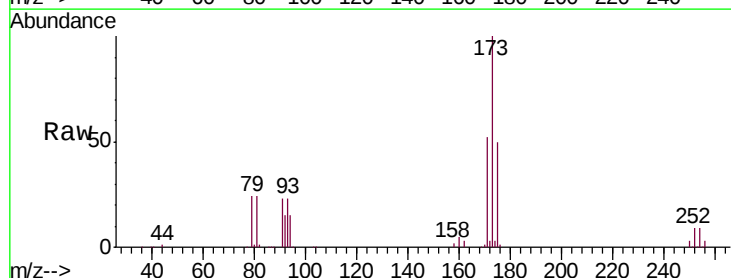
Tgt Ion: 173 Resp: 122924

Ion Ratio Lower Upper

173 100

175 48.5 37.2 55.8

254 8.9 6.6 9.8



Abundance Ion 172.90 (172.60 to 173.60): VU033257.D (-2741) (-)

Ion 174.90 (174.60 to 175.60): VU033257.D (-2741) (-)

Ion 253.75 (253.45 to 254.45): VU033257.D (-2741) (-)

9.94

100000

80000

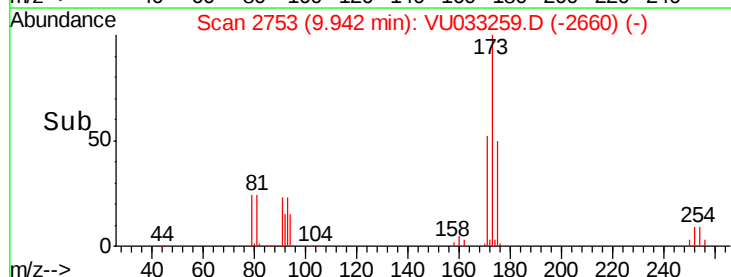
60000

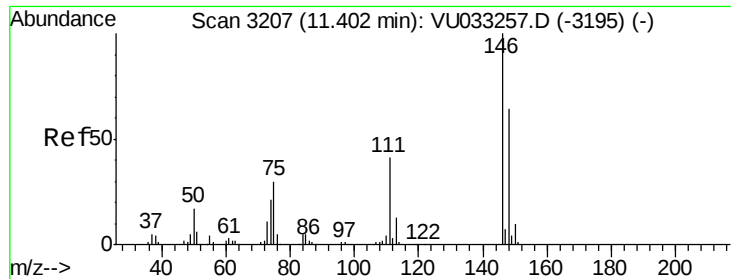
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 20.912 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

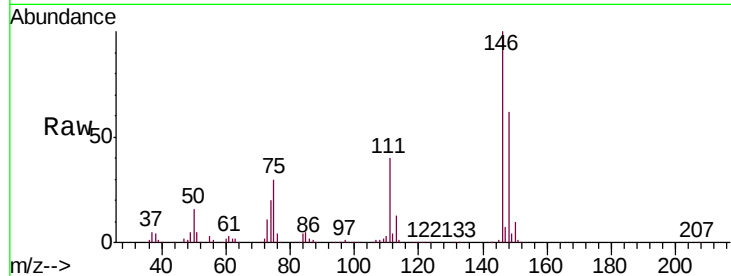
Tgt Ion:146 Resp: 516147

Ion Ratio Lower Upper

146 100

111 39.9 28.6 53.2

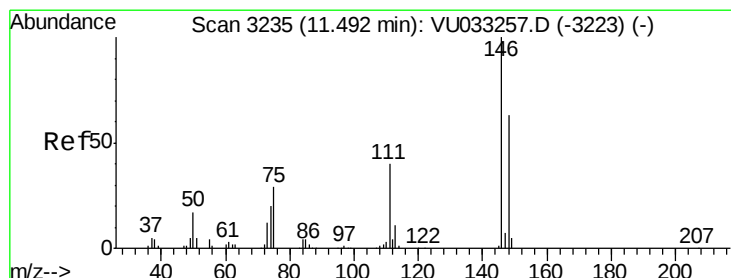
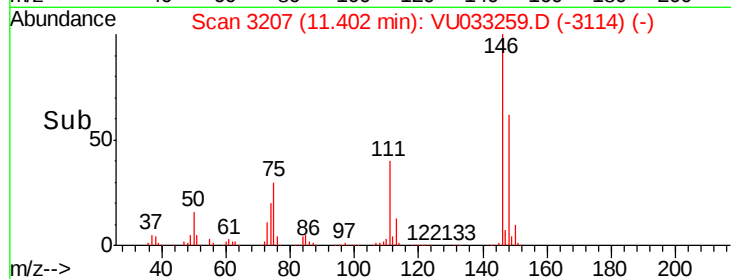
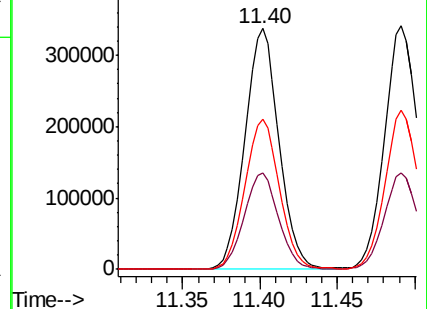
148 62.3 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 20.326 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033259.D

Acq: 16 Jul 2019 10:51

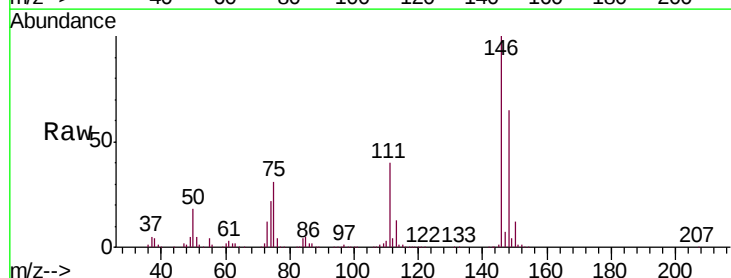
Tgt Ion:146 Resp: 523829

Ion Ratio Lower Upper

146 100

111 39.7 27.9 51.7

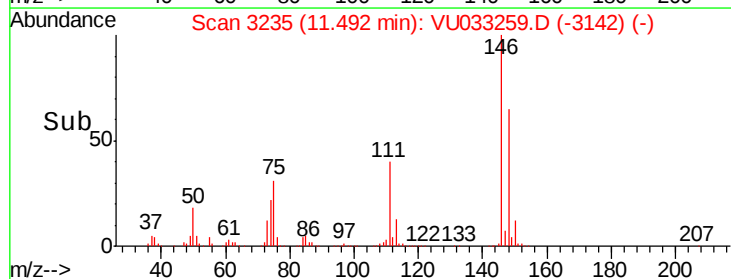
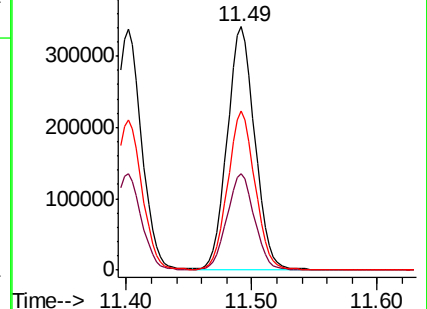
148 65.2 44.1 81.9

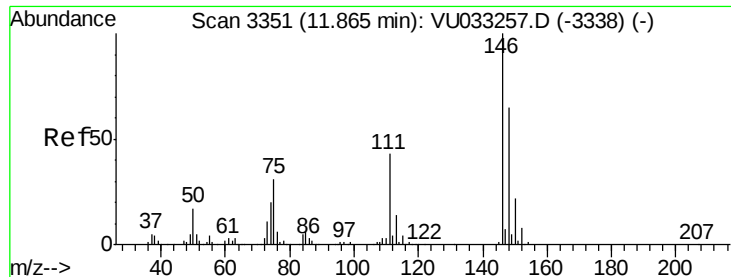


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

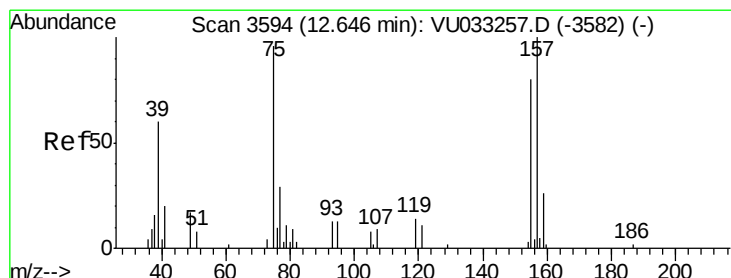
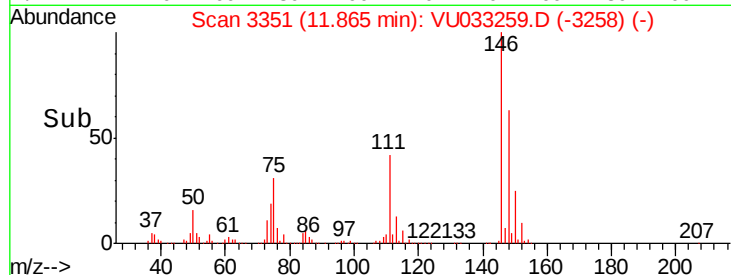
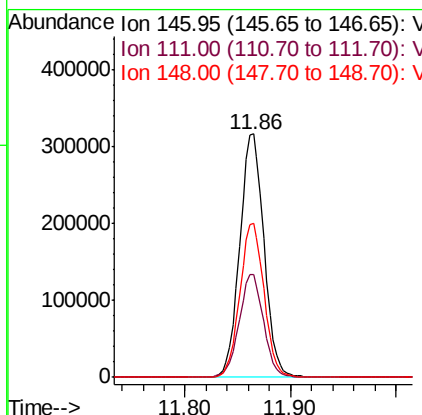
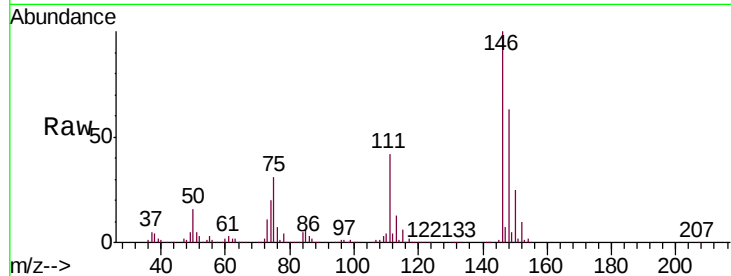




#65
 1,2-Dichlorobenzene
 Concen: 20.853 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

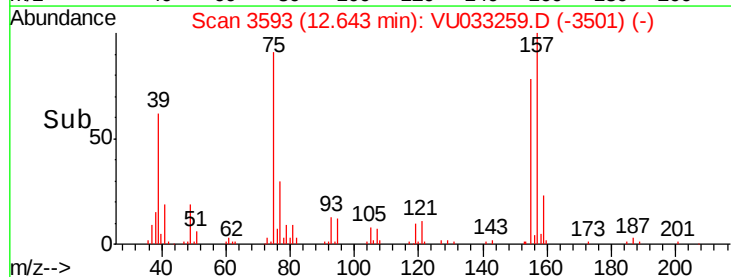
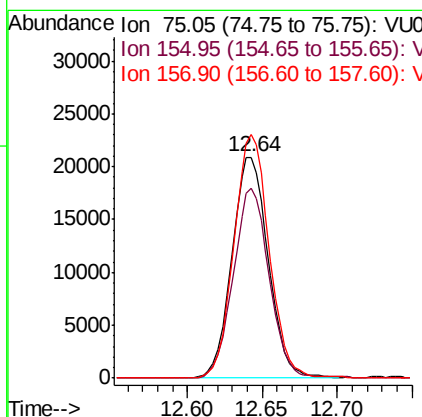
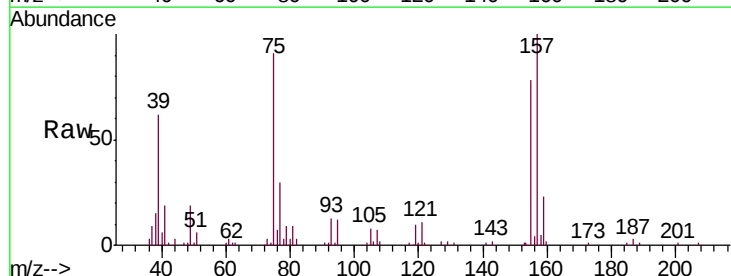
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

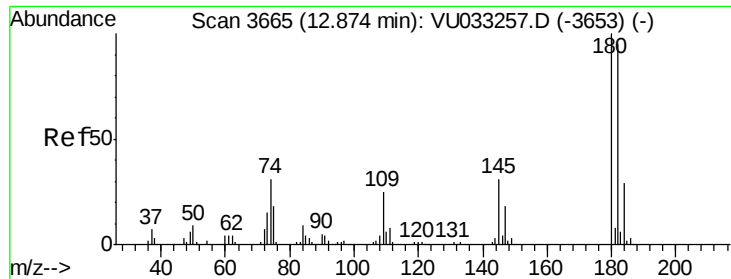
Tgt Ion: 146 Resp: 503772
 Ion Ratio Lower Upper
 146 100
 111 42.0 34.2 51.4
 148 63.2 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 20.822 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

Tgt Ion: 75 Resp: 35346
 Ion Ratio Lower Upper
 75 100
 155 86.2 67.1 100.7
 157 110.2 83.7 125.5

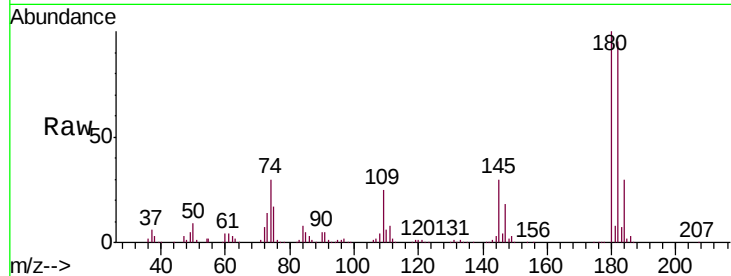




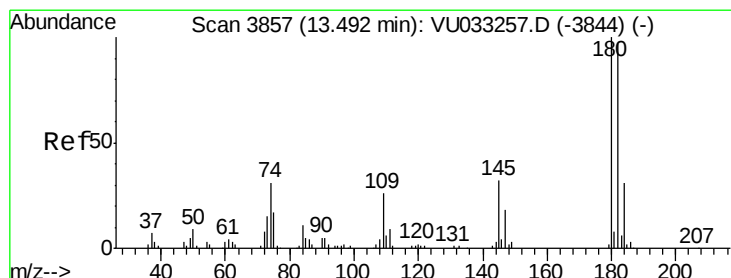
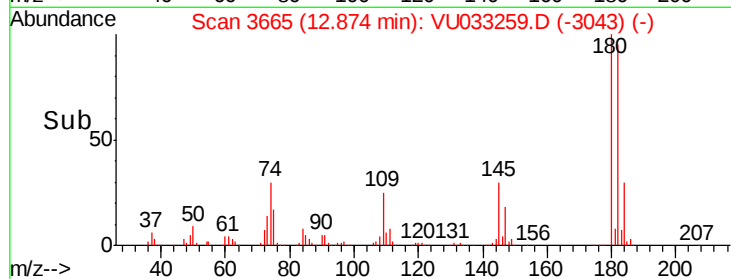
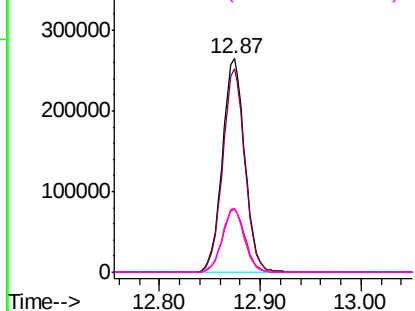
#67
 1,3,5-Trichlorobenzene
 Concen: 21.335 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

Tgt Ion:180 Resp: 411443
 Ion Ratio Lower Upper
 180 100
 182 94.6 76.0 114.0
 184 29.9 24.2 36.2
 145 29.6 24.6 37.0

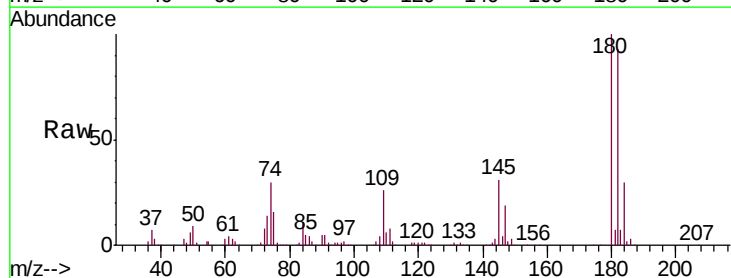


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

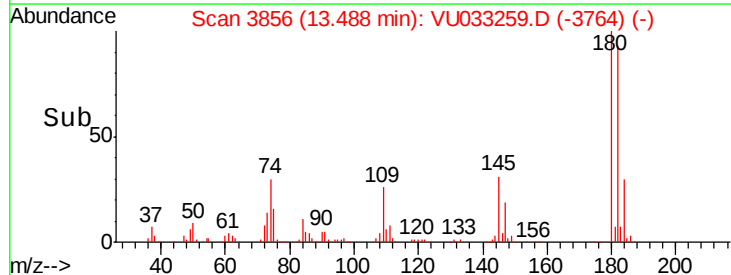
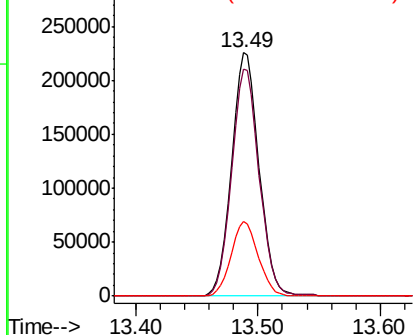


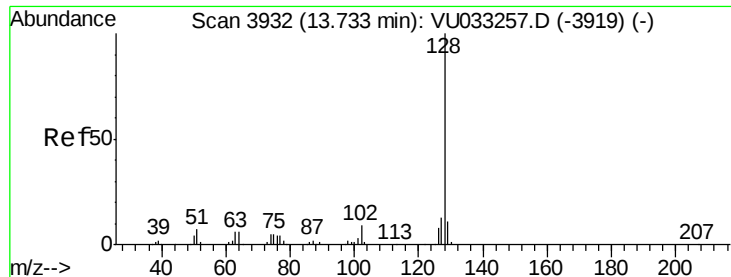
#68
 1,2,4-trichlorobenzene
 Concen: 25.097 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033259.D
 Acq: 16 Jul 2019 10:51

Tgt Ion:180 Resp: 352690
 Ion Ratio Lower Upper
 180 100
 182 94.1 77.3 115.9
 145 30.3 24.5 36.7



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

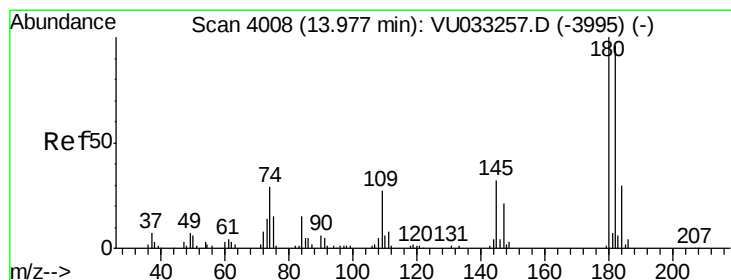
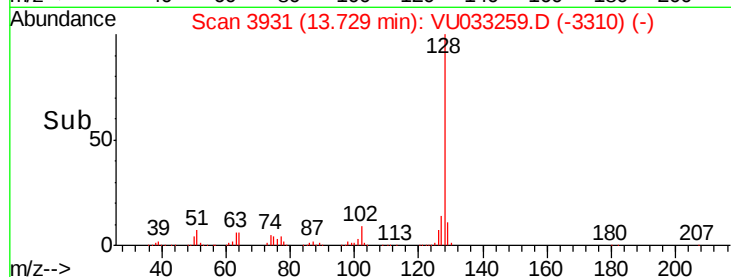
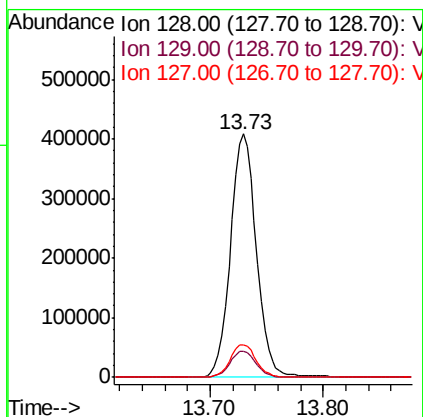
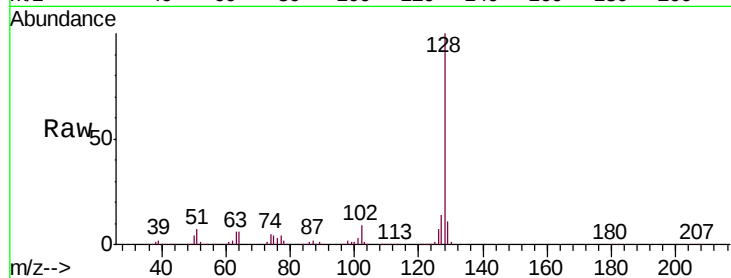




#69
Naphthalene
Concen: 30.265 ug/L
RT: 13.73 min Scan# 3931
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

Tgt Ion:128 Resp: 650570
Ion Ratio Lower Upper
128 100
129 10.9 8.7 13.1
127 13.6 10.6 15.8



#70
1,2,3-Trichlorobenzene
Concen: 24.558 ug/L
RT: 13.97 min Scan# 4007
Delta R.T. -0.00 min
Lab File: VU033259.D
Acq: 16 Jul 2019 10:51

Tgt Ion:180 Resp: 329418
Ion Ratio Lower Upper
180 100
182 95.3 77.0 115.4
145 32.4 25.9 38.9

