

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091520\
 Data File : VU040140.D
 Acq On : 15 Sep 2020 16:19
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Quant Time: Sep 16 03:13:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Sep 16 03:11:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	115575	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	116798	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	60152	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	33053	5.24	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.80%
7) Chloroethane-d5	1.92	69	28552	5.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.60%
11) 1,1-Dichloroethene-d2	2.58	63	85319	5.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	105.40%
20) 2-Butanone-d5	4.66	46	125084	49.56	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.12%
24) Chloroform-d	5.08	84	71098	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	5.72	65	43864	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.74	84	128312	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.70	67	41042	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.20%
41) Toluene-d8	7.90	98	115379	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
43) trans-1,3-Dichloropropene-	8.19	79	18802	4.55	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.00%
46) 2-Hexanone-d5	8.64	63	98905	50.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.14%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	39669	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	44975	4.62	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	57766	5.036	ug/L 100
3) Chloromethane	1.53	50	50670	4.614	ug/L 97
5) Vinyl chloride	1.61	62	55225	4.961	ug/L 96
6) Bromomethane	1.87	94	23503	4.130	ug/L 97
8) Chloroethane	1.94	64	33920	5.070	ug/L 99
9) Trichlorofluoromethane	2.15	101	84316	5.287	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	54703	5.292	ug/L 98
12) 1,1-Dichloroethene	2.59	96	48935	5.471	ug/L 97
13) Acetone	2.67	43	129283	55.332	ug/L 96
14) Carbon disulfide	2.81	76	138683	4.836	ug/L 100
15) Methyl Acetate	2.97	43	29146	4.970	ug/L 96
16) Methylene chloride	3.06	84	60242	5.143	ug/L 95
17) Methyl tert-butyl Ether	3.38	73	136607	5.067	ug/L 99
18) trans-1,2-Dichloroethene	3.37	96	49164	5.110	ug/L 97
19) 1,1-Dichloroethane	3.89	63	102446	5.173	ug/L 100
21) 2-Butanone	4.74	43	206758	54.202	ug/L 98
22) cis-1,2-Dichloroethene	4.68	96	54629	5.280	ug/L 99

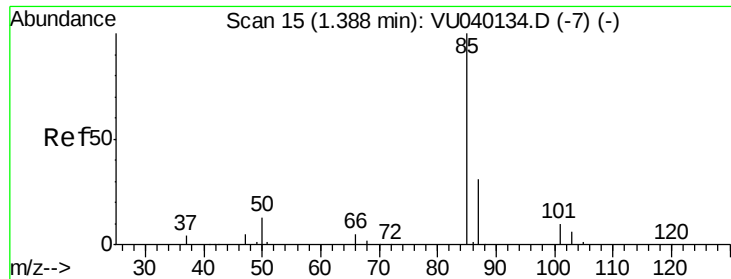
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091520\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	24316	5.364	uq/L	97
25) Chloroform	5.11	83	110268	5.437	uq/L	99
27) 1,2-Dichloroethane	5.81	62	76695	5.161	uq/L	96
29) 1,1,1-Trichloroethane	5.33	97	91491	4.989	uq/L	99
30) Cyclohexane	5.40	56	82592	4.644	uq/L	100
31) Carbon tetrachloride	5.54	117	77668	4.949	uq/L	100
33) Benzene	5.79	78	212615	5.088	uq/L	100
34) Trichloroethene	6.55	95	56529	5.044	uq/L	98
35) Methylcyclohexane	6.77	83	81539	4.751	uq/L	98
37) 1,2-Dichloropropane	6.80	63	58113	5.136	uq/L	98
38) Bromodichloromethane	7.11	83	78841	5.105	uq/L	97
39) cis-1,3-Dichloropropene	7.61	75	78085	4.680	uq/L	97
40) 4-Methyl-2-pentanone	7.80	43	477254	51.412	uq/L	99
42) Toluene	7.97	91	224274	5.212	uq/L	100
44) trans-1,3-Dichloropropene	8.21	75	75509	4.884	uq/L	94
45) 1,1,2-Trichloroethane	8.40	97	43247	5.247	uq/L	97
47) Tetrachloroethene	8.56	164	37341	5.072	uq/L	96
48) 2-Hexanone	8.69	43	350895	51.821	uq/L	97
49) Dibromochloromethane	8.81	129	51133	5.169	uq/L	99
50) 1,2-Dibromoethane	8.93	107	41300	5.197	uq/L #	99
51) Chlorobenzene	9.45	112	144215	5.398	uq/L	97
52) Ethylbenzene	9.57	91	248327	5.079	uq/L	99
53) m,p-Xylene	9.69	106	92371	5.306	uq/L	96
54) o-Xylene	10.10	106	89079	5.370	uq/L	97
55) Styrene	10.11	104	160766	5.573	uq/L	96
56) Isopropylbenzene	10.48	105	242880	5.369	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	56637	5.359	uq/L	100
59) 1,2,3-Trichloropropane	10.82	75	44037	5.254	uq/L	98
61) Bromoform	10.29	173	26707	4.841	uq/L	98
62) 1,3-Dichlorobenzene	11.74	146	114173	5.193	uq/L	100
63) 1,4-Dichlorobenzene	11.83	146	117398	5.277	uq/L	99
65) 1,2-Dichlorobenzene	12.21	146	112902	5.307	uq/L	99
66) 1,2-Dibromo-3-chloropropan	12.99	75	9630	4.233	uq/L	92
67) 1,3,5-Trichlorobenzene	13.21	180	78314	5.066	uq/L	98
68) 1,2,4-trichlorobenzene	13.83	180	63112	4.740	uq/L	98
69) Naphthalene	14.08	128	116486	4.197	uq/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	60588	4.954	uq/L	97

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



#2

Dichlorodifluoromethane

Concen: 5.036 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

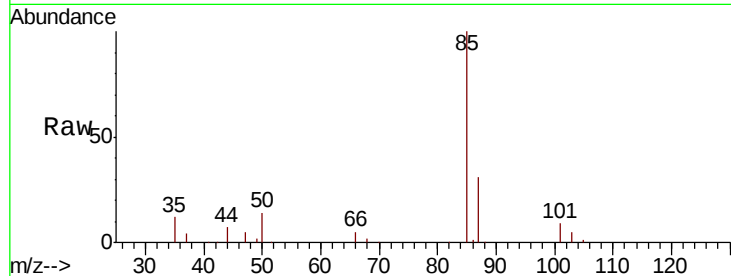
VSTD00507

Tot Ion: 85 Resp: 57766

Ion Ratio Lower Upper

85 100

87 32.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU040134.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU040134.D (-7) (-)

1.39

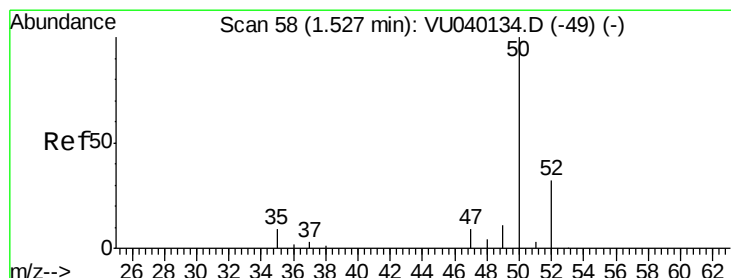
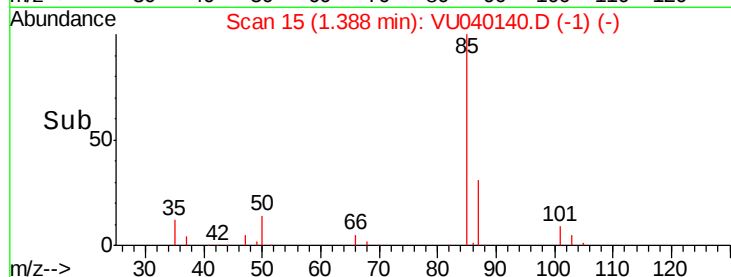
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 4.614 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040140.D

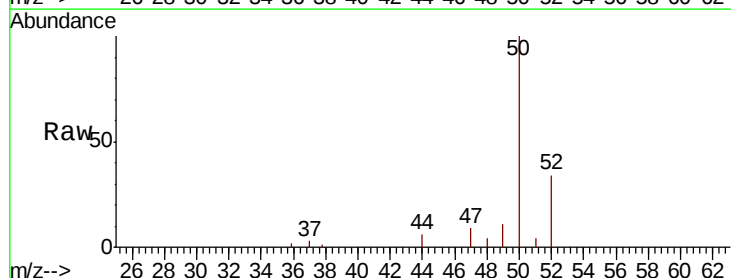
Acq: 15 Sep 2020 16:19

Tgt Ion: 50 Resp: 50670

Ion Ratio Lower Upper

50 100

52 34.2 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU040134.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040134.D (-49) (-)

1.53

50000

40000

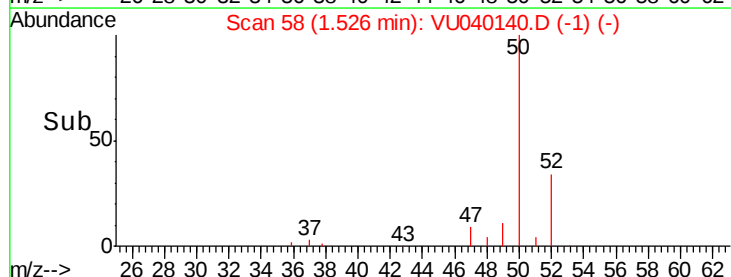
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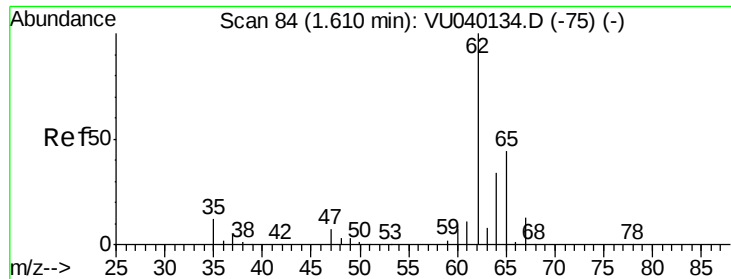
20000

10000

0

Time-->





#5

Vinyl chloride

Concen: 4.961 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

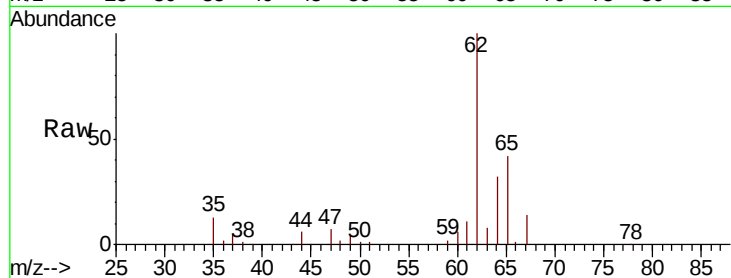
VSTD00507

Tot Ion: 62 Resp: 55225

Ion Ratio Lower Upper

62 100

64 32.0 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.61

50000

40000

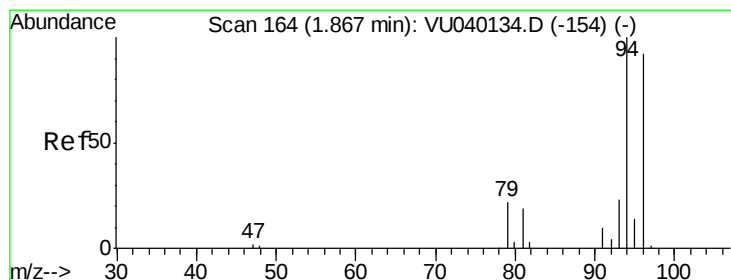
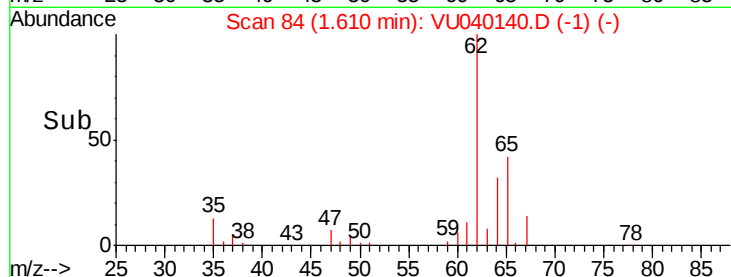
30000

20000

10000

0

Time--> 1.55 1.60 1.65



#6

Bromomethane

Concen: 4.130 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040140.D

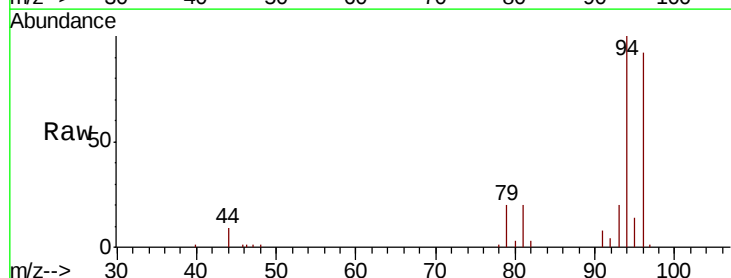
Acq: 15 Sep 2020 16:19

Tgt Ion: 94 Resp: 23503

Ion Ratio Lower Upper

94 100

96 92.0 62.3 115.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.87

20000

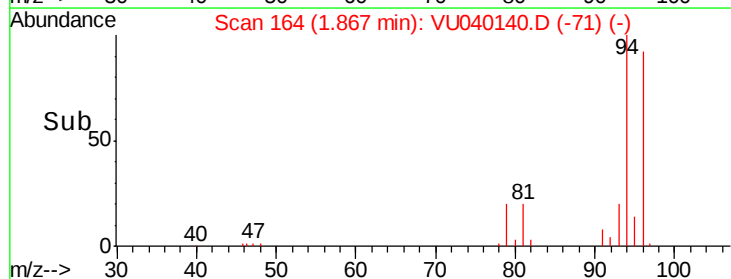
15000

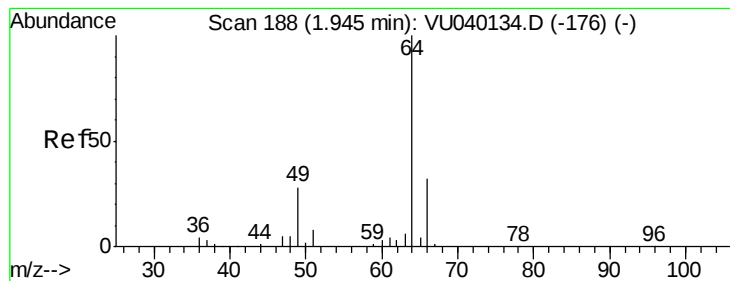
10000

5000

0

Time--> 1.80 1.85 1.90





#8

Chloroethane

Concen: 5.070 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

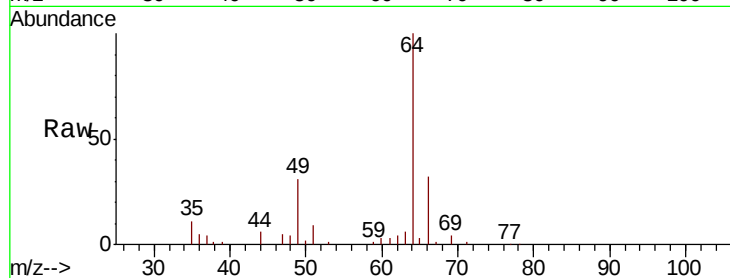
VSTD00507

Tot Ion: 64 Resp: 33920

Ion Ratio Lower Upper

64 100

66 31.9 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU040140.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU040140.D (-176) (-)

1.94

25000

20000

15000

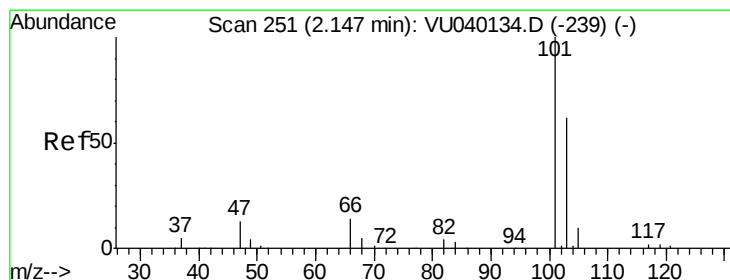
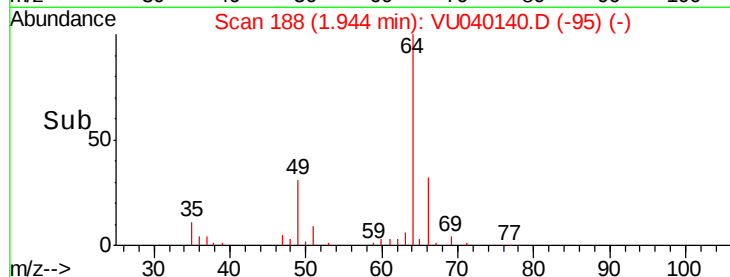
10000

5000

0

Time-->

1.90 1.95 2.00



#9

Trichlorofluoromethane

Concen: 5.287 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU040140.D

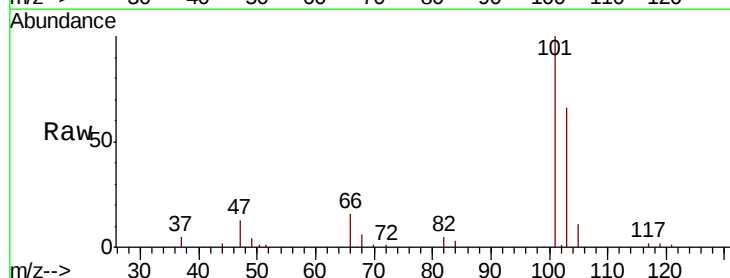
Acq: 15 Sep 2020 16:19

Tgt Ion:101 Resp: 84316

Ion Ratio Lower Upper

101 100

103 64.6 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU040140.D (-239) (-)

Ion 103.00 (102.70 to 103.70): VU040140.D (-239) (-)

2.15

60000

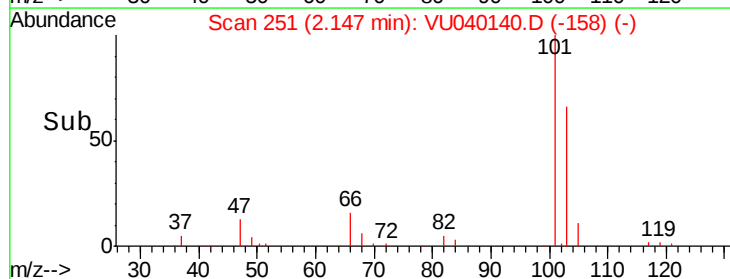
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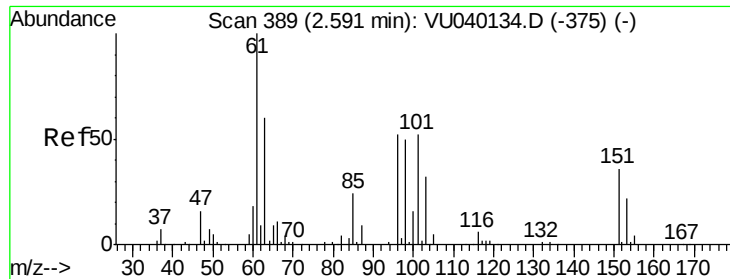
20000

0

Time-->

2.10 2.15 2.20





#10

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

Concen: 5.292 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

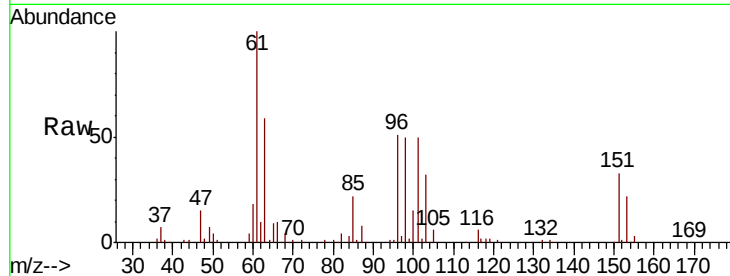
Tot Ion:101 Resp: 54703

Ion Ratio Lower Upper

101 100

85 44.5 37.7 56.5

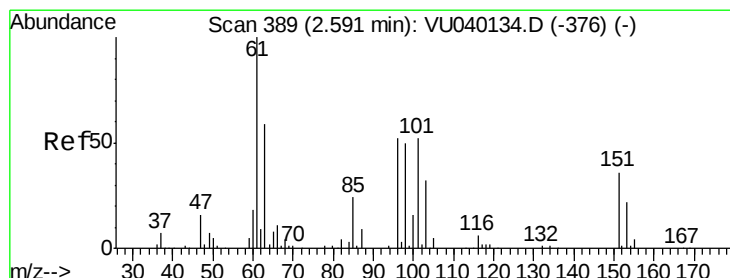
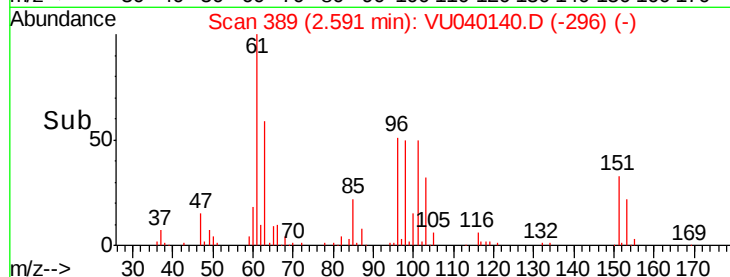
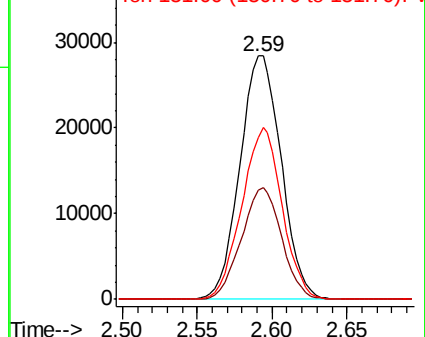
151 68.5 53.9 80.9



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: 5.471 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

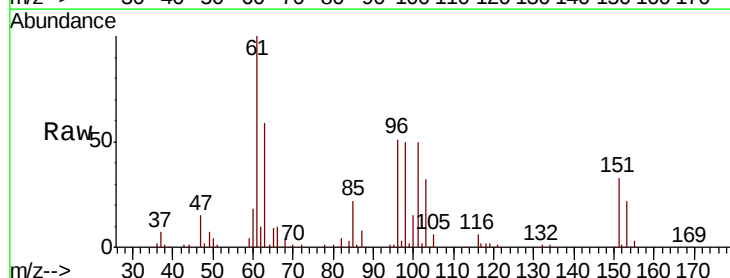
Tgt Ion: 96 Resp: 48935

Ion Ratio Lower Upper

96 100

61 194.3 138.3 256.8

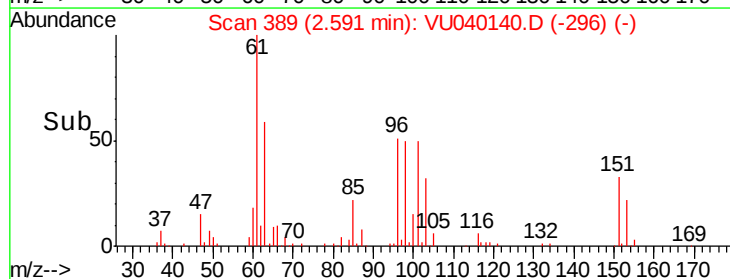
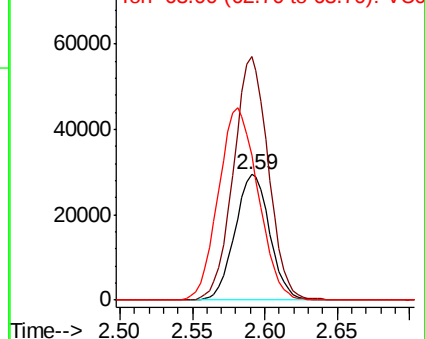
63 115.3 77.6 144.2

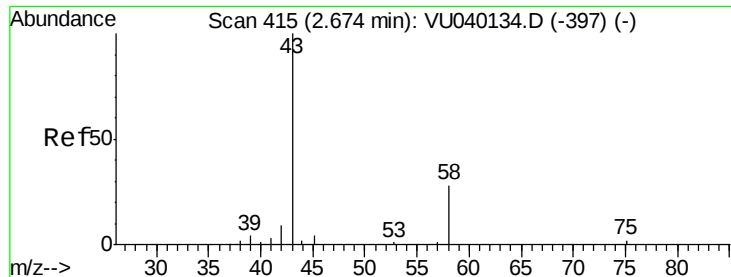


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 55.332 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

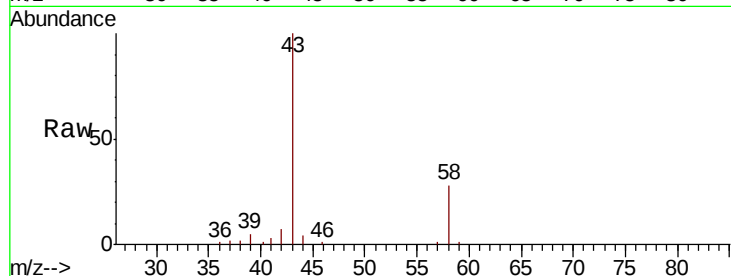
VSTD00507

Tot Ion: 43 Resp: 129283

Ion Ratio Lower Upper

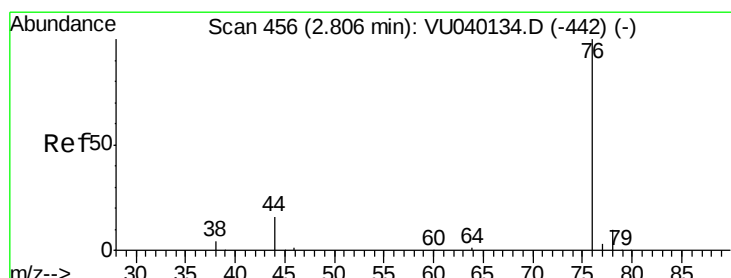
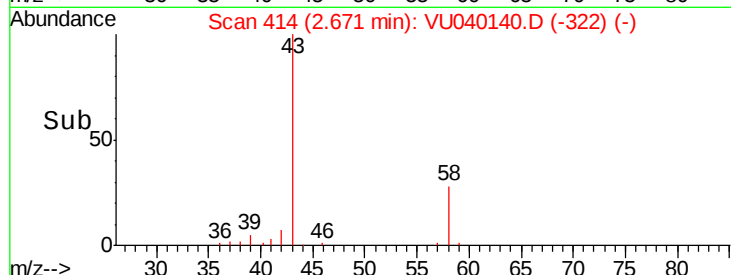
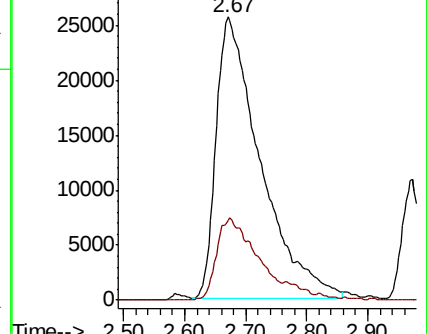
43 100

58 25.4 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU040140.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU040140.D (-322) (-)



#14

Carbon disulfide

Concen: 4.836 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040140.D

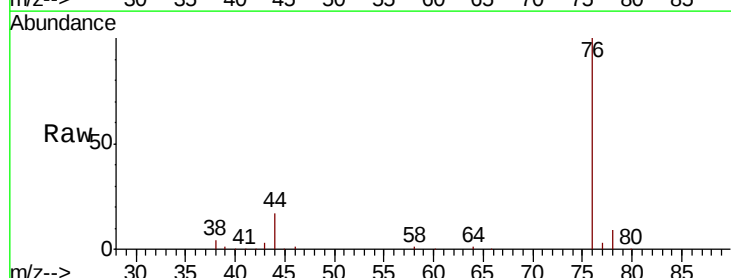
Acq: 15 Sep 2020 16:19

Tgt Ion: 76 Resp: 138683

Ion Ratio Lower Upper

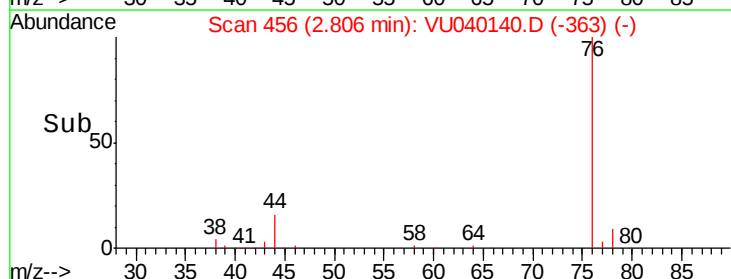
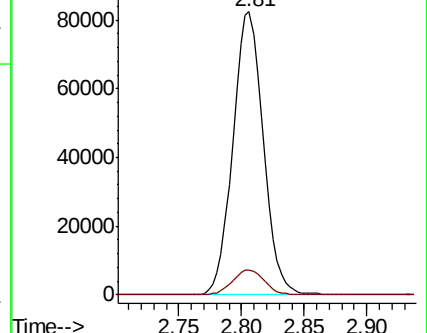
76 100

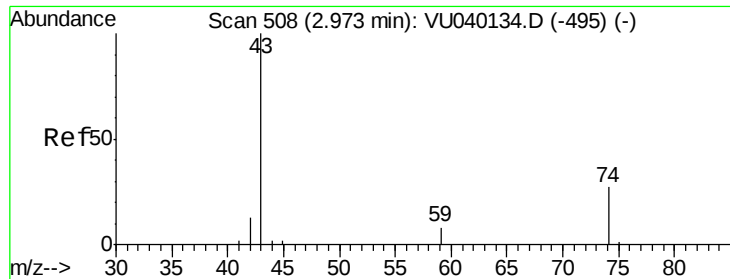
78 8.8 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU040140.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040140.D (-363) (-)





#15

Methvl Acetate

Concen: 4.970 ug/L

RT: 2.97 min Scan# 508

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

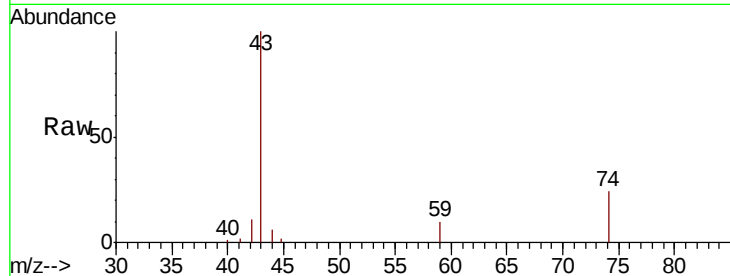
VSTD00507

Tot Ion: 43 Resp: 29146

Ion Ratio Lower Upper

43 100

74 19.6 17.4 26.0



Abundance Ion 43.05 (42.75 to 43.75): VU040140.D (-415) (-)

Ion 74.05 (73.75 to 74.75): VU040140.D (-415) (-)

2.97

12000

10000

8000

6000

4000

2000

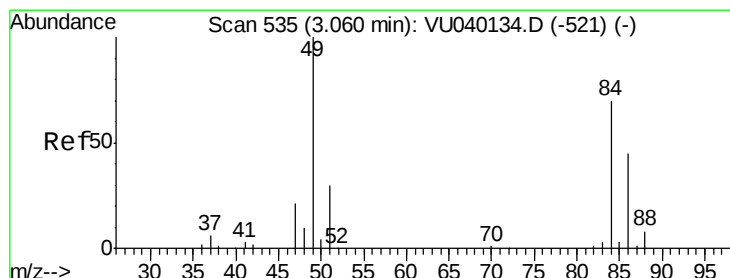
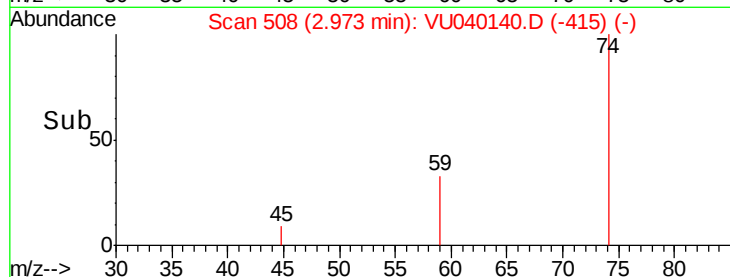
0

Time-->

2.90

3.00

3.10



#16

Methylene chloride

Concen: 5.143 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

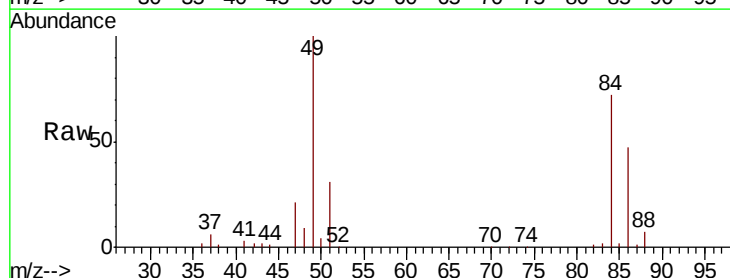
Tgt Ion: 84 Resp: 60242

Ion Ratio Lower Upper

84 100

86 66.0 45.2 84.0

49 139.8 104.0 193.2



Abundance Ion 84.05 (83.75 to 84.75): VU040140.D (-442) (-)

Ion 86.00 (85.70 to 86.70): VU040140.D (-442) (-)

Ion 49.10 (48.80 to 49.80): VU040140.D (-442) (-)

60000

50000

40000

30000

20000

10000

0

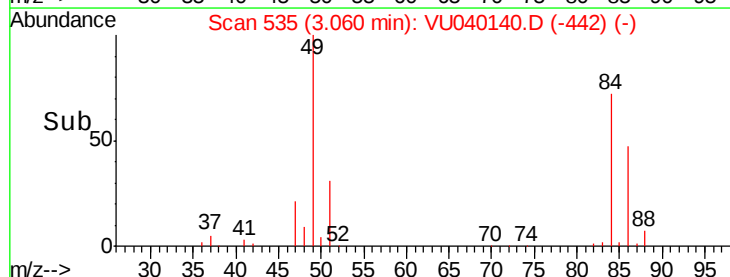
Time-->

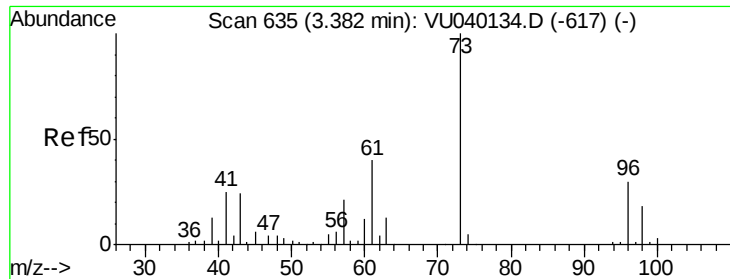
3.00

3.05

3.10

3.15

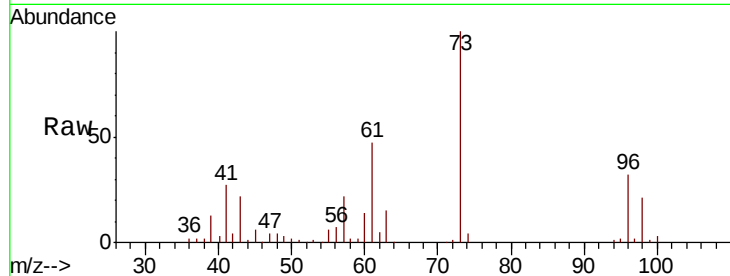




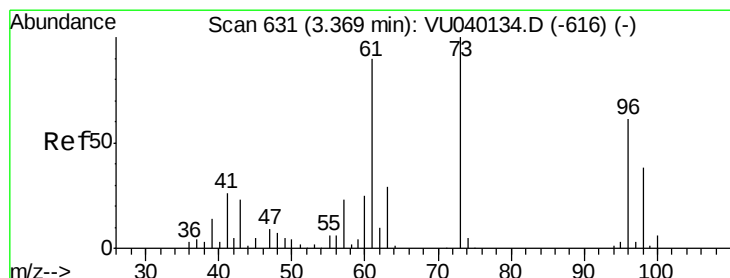
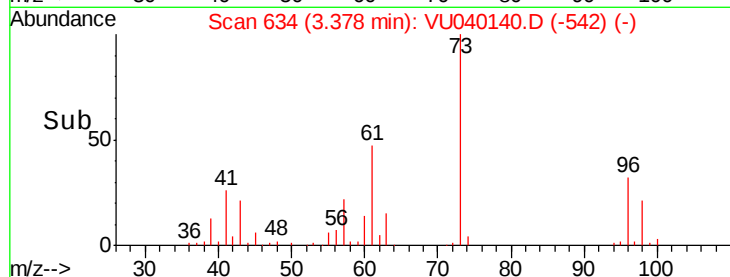
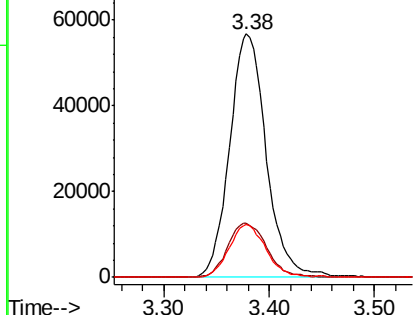
#17
Methvl tert-butvl Ether
Concen: 5.067 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Tot Ion: 73 Resp: 136607
Ion Ratio Lower Upper
73 100
43 23.8 19.1 28.7
57 21.7 18.3 27.5

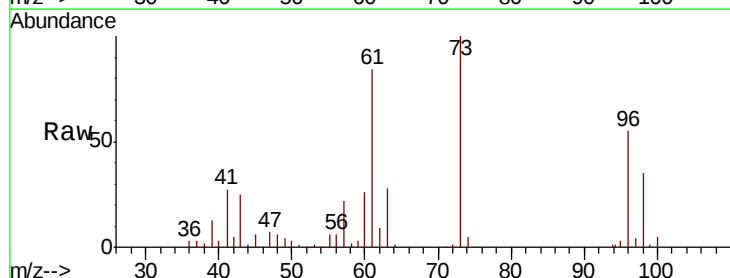


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

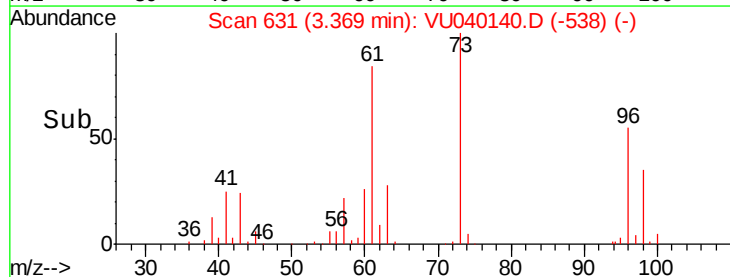
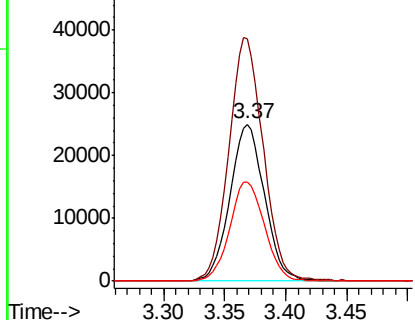


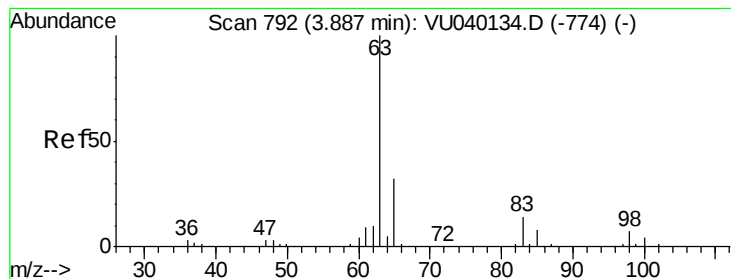
#18
trans-1,2-Dichloroethene
Concen: 5.110 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

Tgt Ion: 96 Resp: 49164
Ion Ratio Lower Upper
96 100
61 154.5 110.5 205.3
98 63.4 43.2 80.2



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: 5.173 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

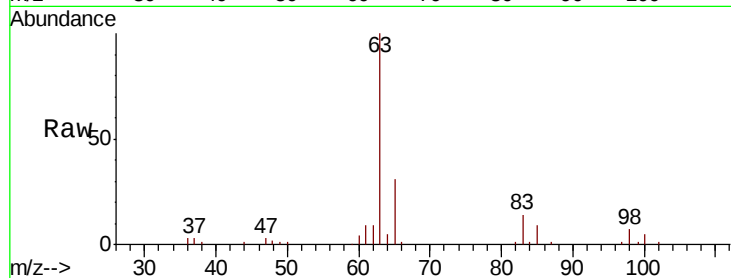
Tot Ion: 63 Resp: 102446

Ion Ratio Lower Upper

63 100

65 31.5 22.2 41.2

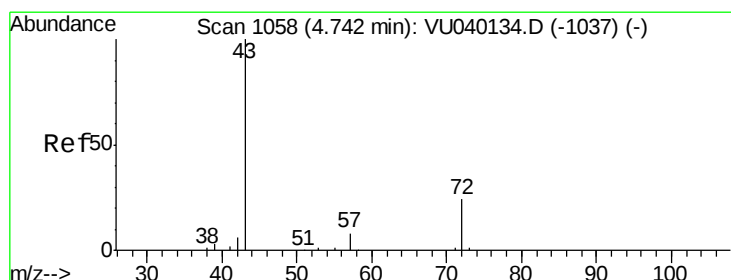
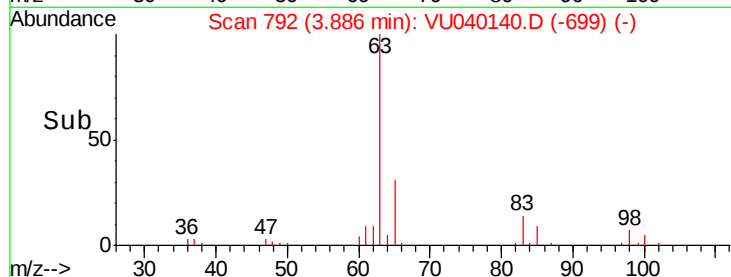
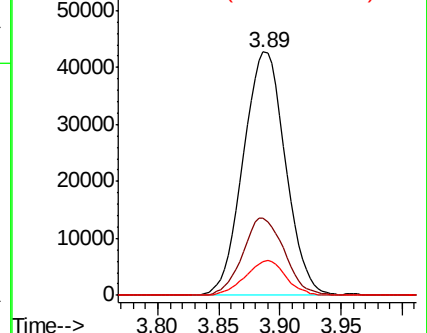
83 13.7 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU040140.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU040140.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU040140.D (-699) (-)



#21

2-Butanone

Concen: 54.202 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. -0.00 min

Lab File: VU040140.D

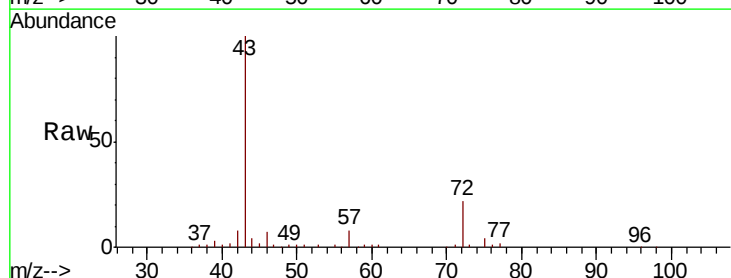
Acq: 15 Sep 2020 16:19

Tgt Ion: 43 Resp: 206758

Ion Ratio Lower Upper

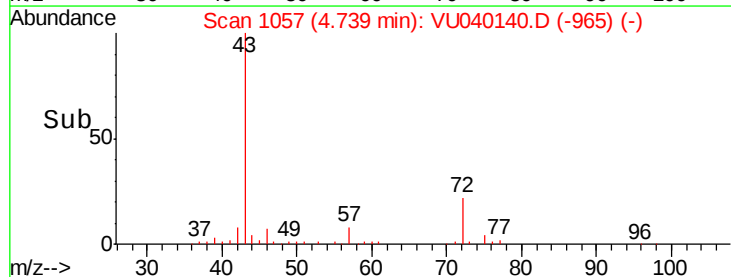
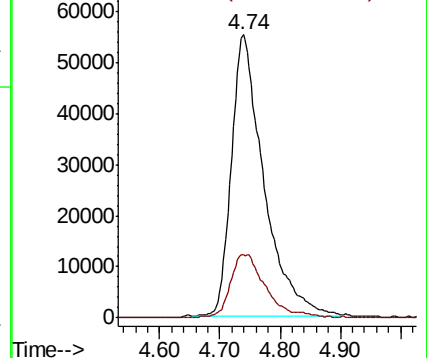
43 100

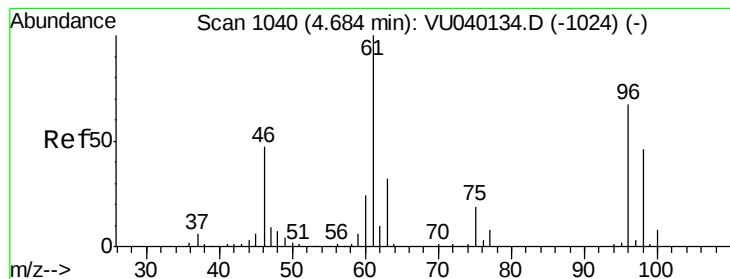
72 22.4 11.7 35.0



Abundance Ion 43.05 (42.75 to 43.75): VU040140.D (-965) (-)

Ion 72.10 (71.80 to 72.80): VU040140.D (-965) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.280 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

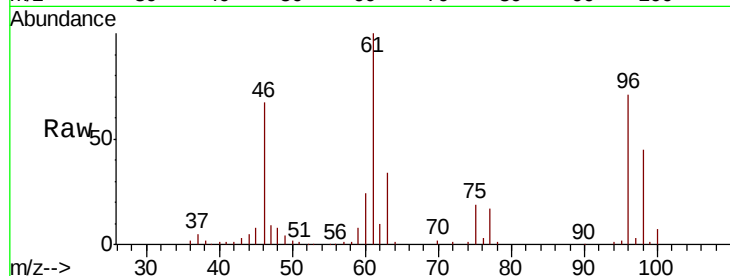
Tot Ion: 96 Resp: 54629

Ion Ratio Lower Upper

96 100

61 140.4 98.8 183.4

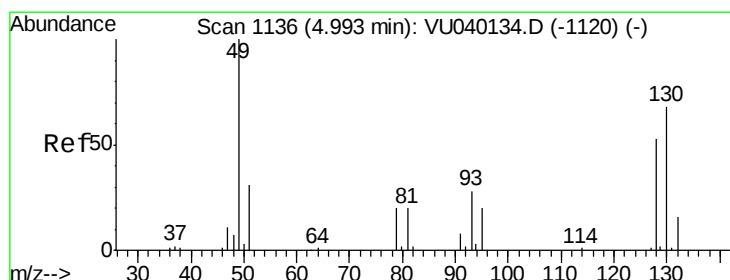
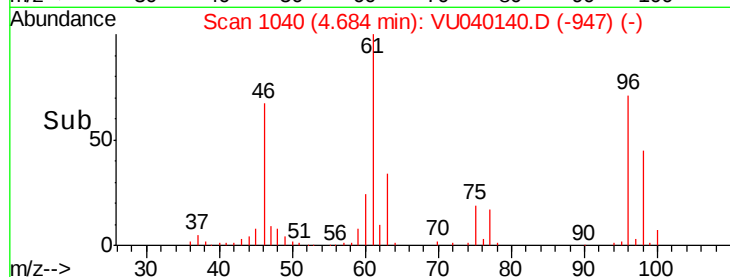
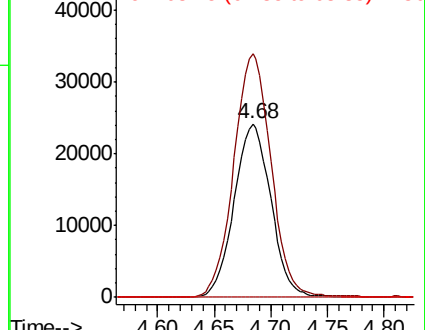
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.364 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Tgt Ion: 128 Resp: 24316

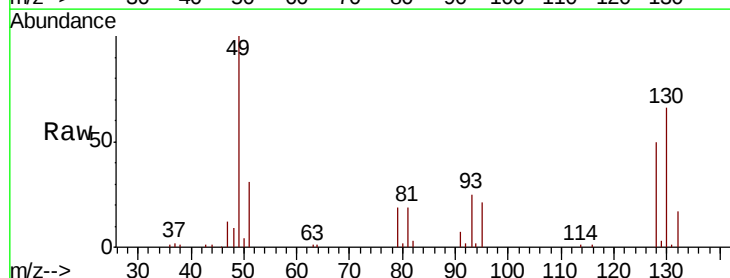
Ion Ratio Lower Upper

128 100

49 198.7 143.4 266.4

130 130.5 89.5 166.3

51 61.4 51.0 76.4

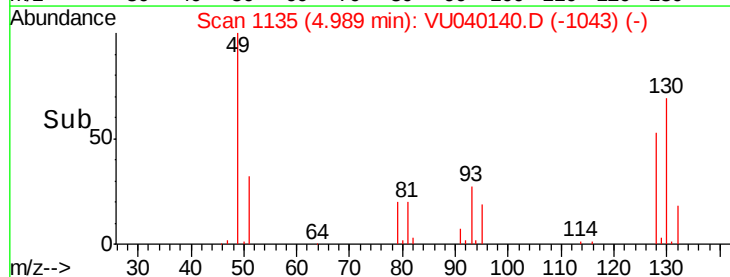
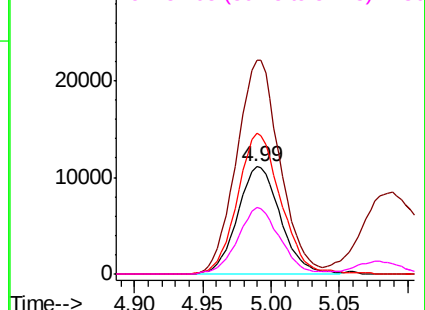


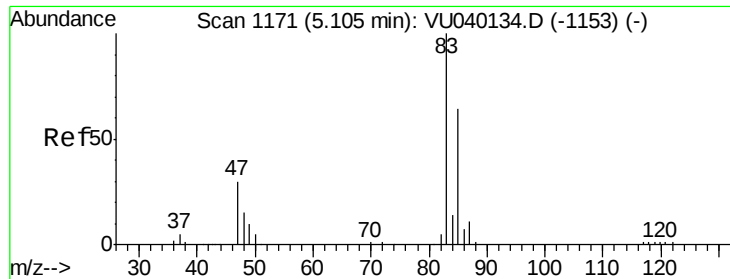
Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

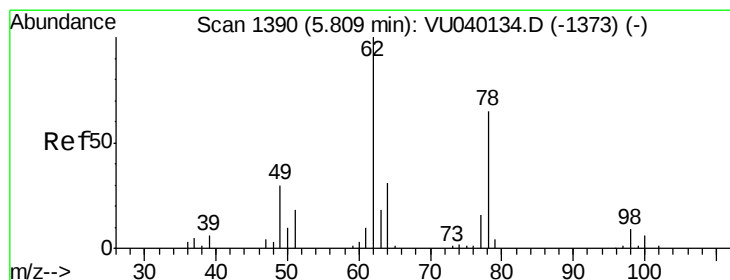
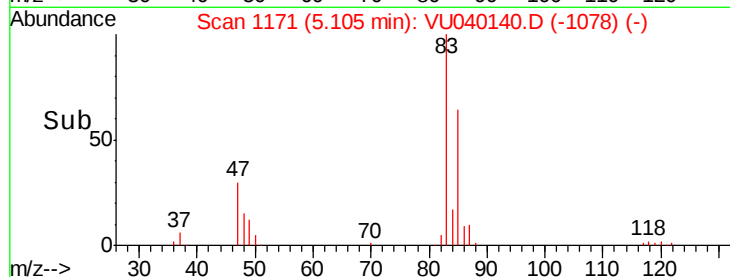
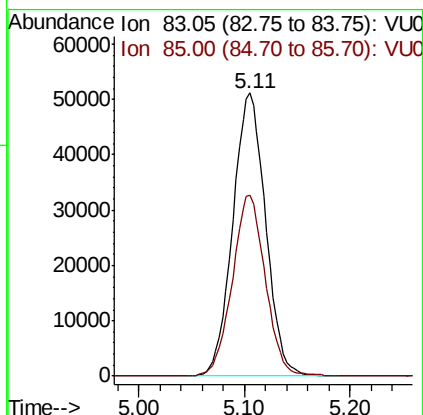
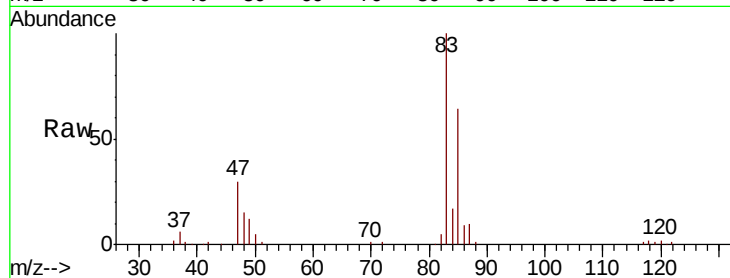




#25
Chloroform
Concen: 5.437 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

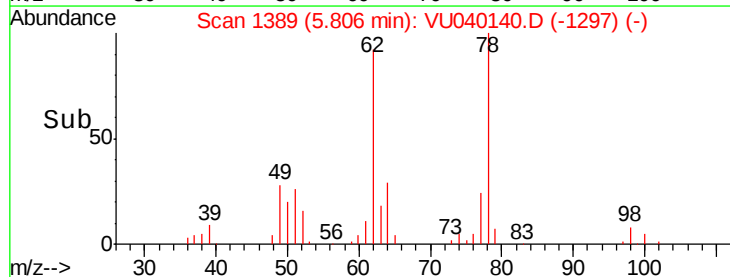
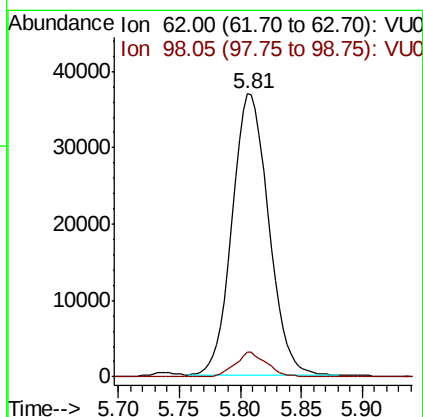
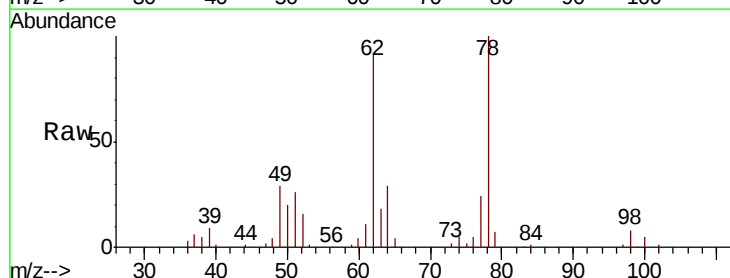
Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

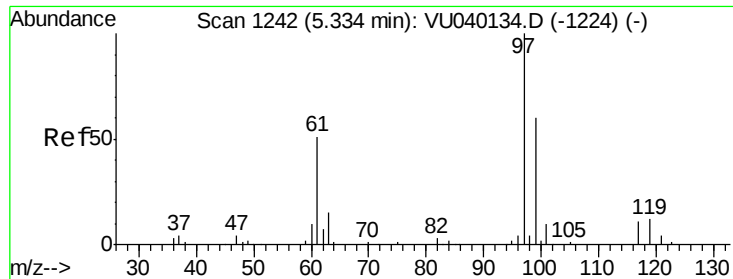
Tot Ion: 83 Resp: 110268
Ion Ratio Lower Upper
83 100
85 64.1 45.3 84.1



#27
1,2-Dichloroethane
Concen: 5.161 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

Tgt Ion: 62 Resp: 76695
Ion Ratio Lower Upper
62 100
98 9.0 6.1 9.1

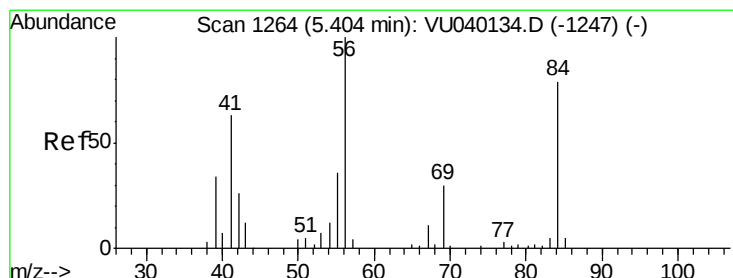
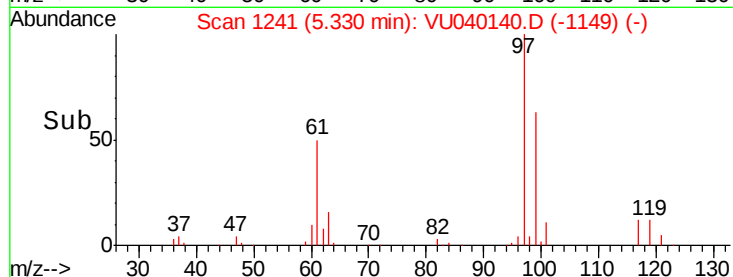
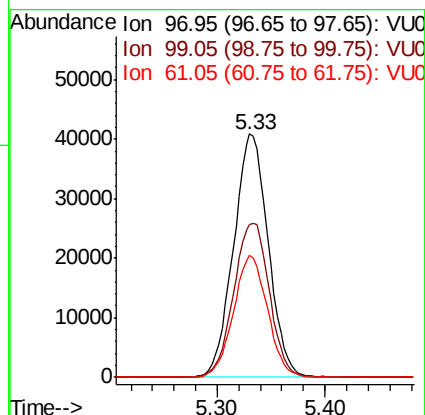
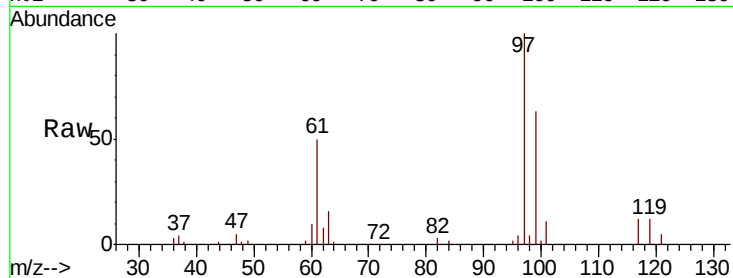




#29
1,1,1-Trichloroethane
Concen: 4.989 ug/L
RT: 5.33 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

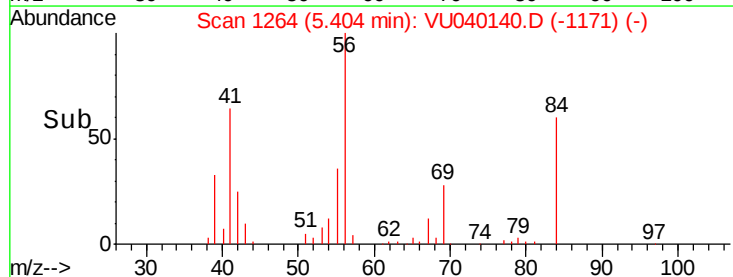
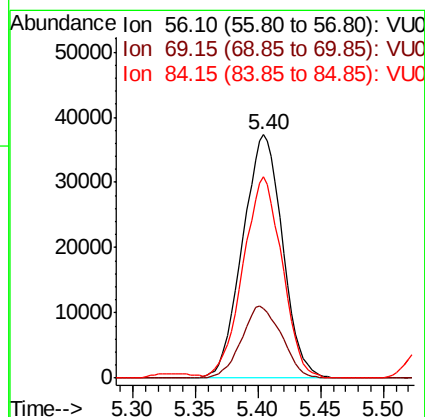
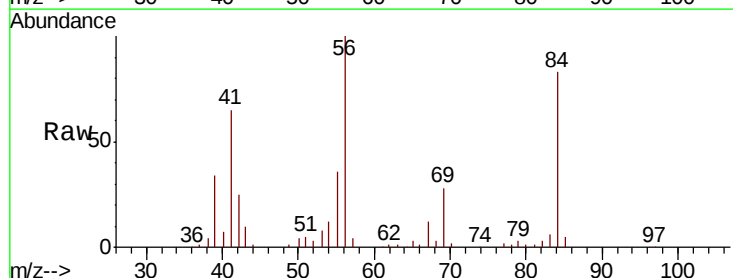
Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

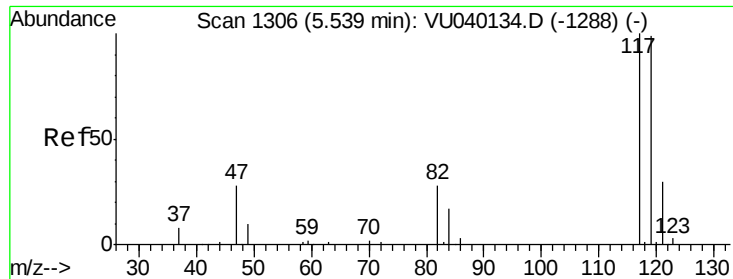
Tot Ion: 97 Resp: 91491
Ion Ratio Lower Upper
97 100
99 65.3 50.9 76.3
61 49.2 39.5 59.3



#30
Cyclohexane
Concen: 4.644 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

Tgt Ion: 56 Resp: 82592
Ion Ratio Lower Upper
56 100
69 29.7 24.1 36.1
84 81.4 65.0 97.4





#31

Carbon tetrachloride

Concen: 4.949 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

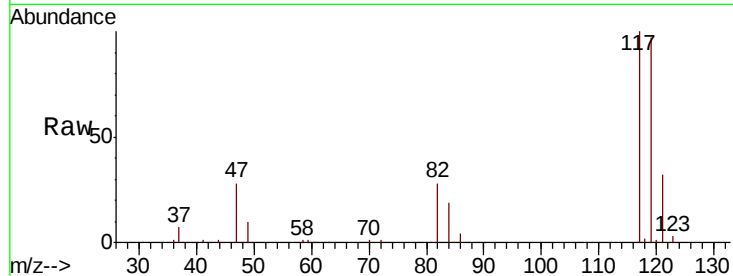
VSTD00507

Tot Ion:117 Resp: 77668

Ion Ratio Lower Upper

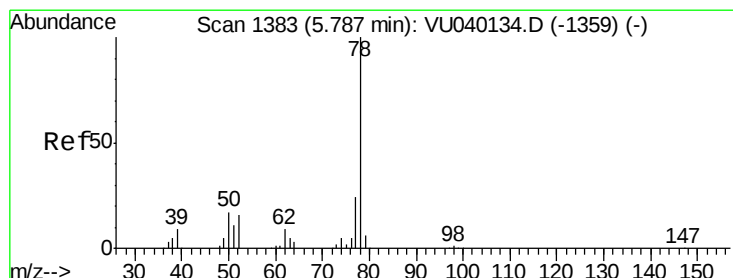
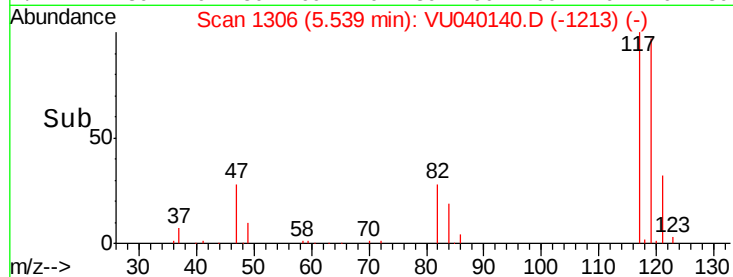
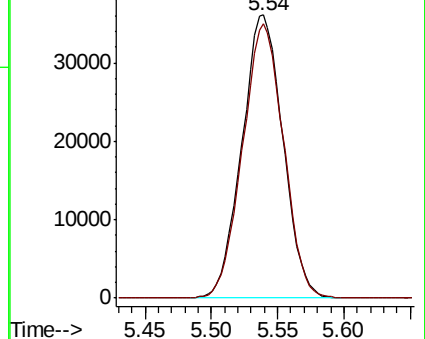
117 100

119 96.9 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.088 ug/L

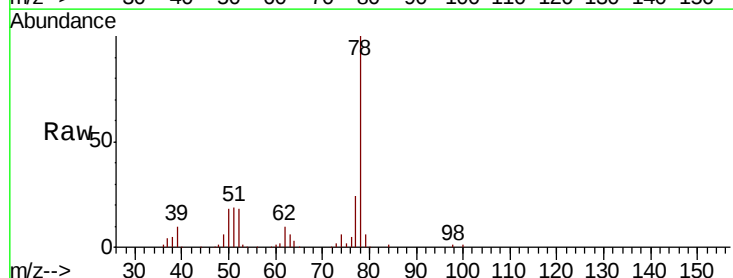
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Tgt Ion: 78 Resp: 212615



Abundance Ion 78.10 (77.80 to 78.80): VU0

120000

100000

80000

60000

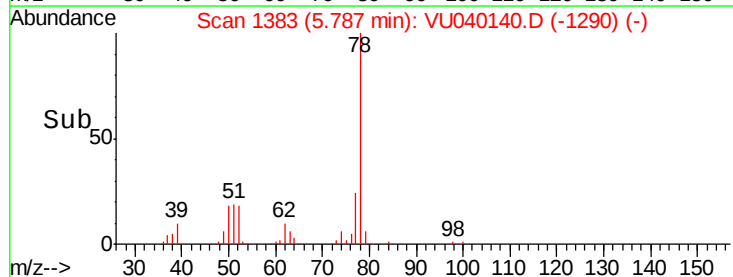
40000

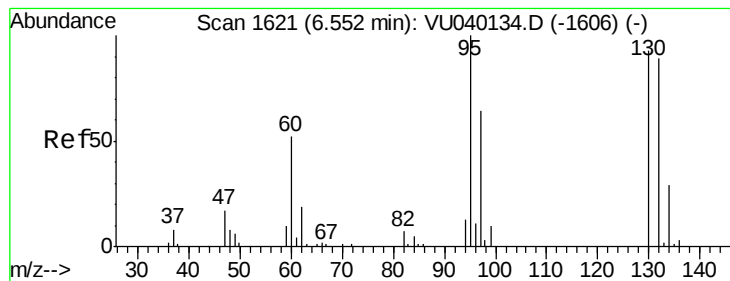
20000

0

5.79

Time-->





#34

Trichloroethene

Concen: 5.044 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

Tot Ion: 95 Resp: 56529

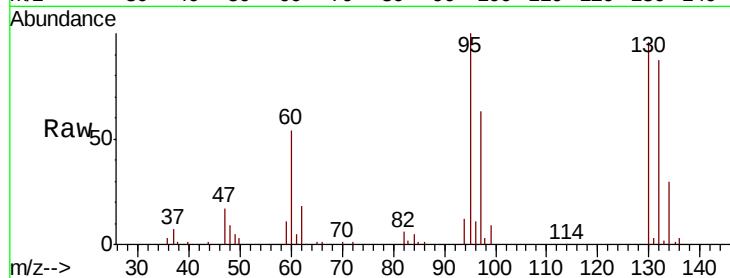
Ion Ratio Lower Upper

95 100

97 63.2 43.3 80.5

132 86.6 59.4 110.4

130 95.9 64.8 120.4

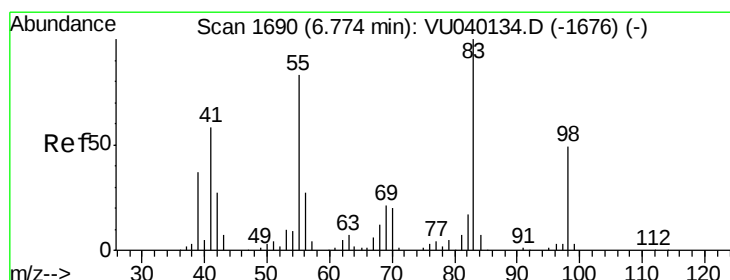
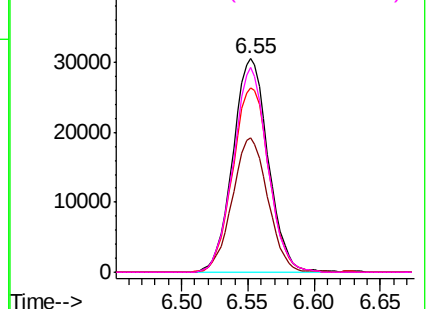
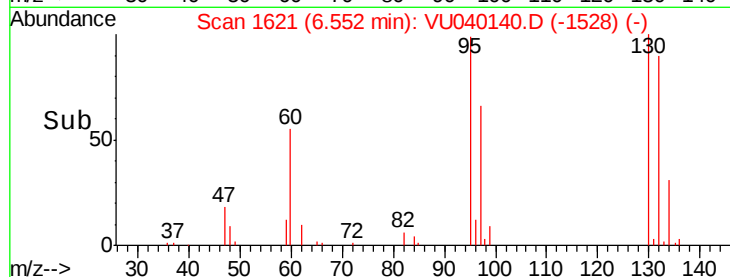


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.751 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

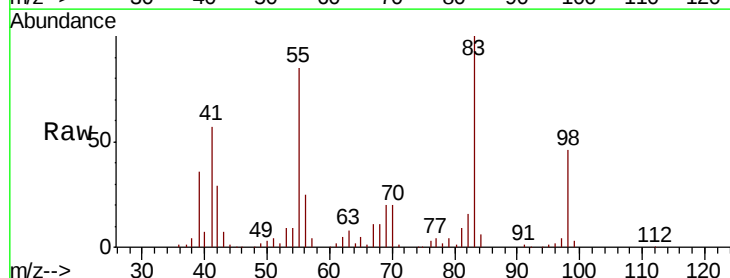
Tgt Ion: 83 Resp: 81539

Ion Ratio Lower Upper

83 100

55 85.3 70.5 105.7

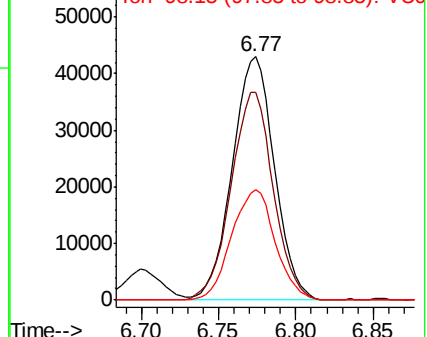
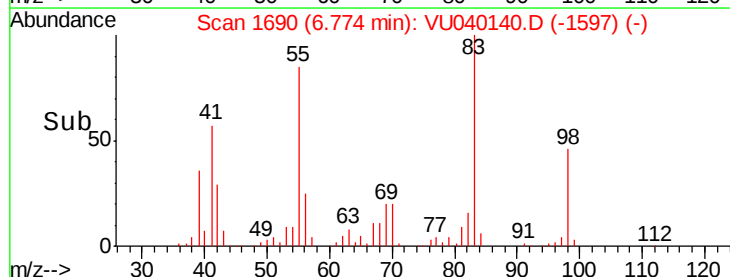
98 47.0 37.8 56.6

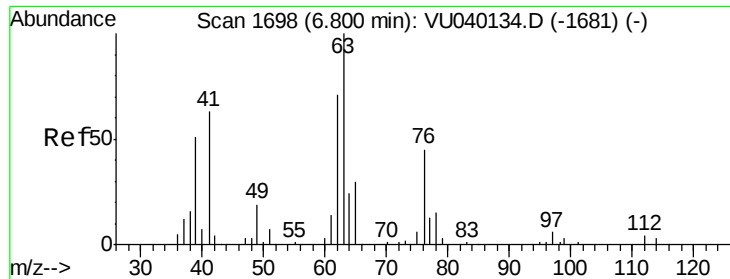


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

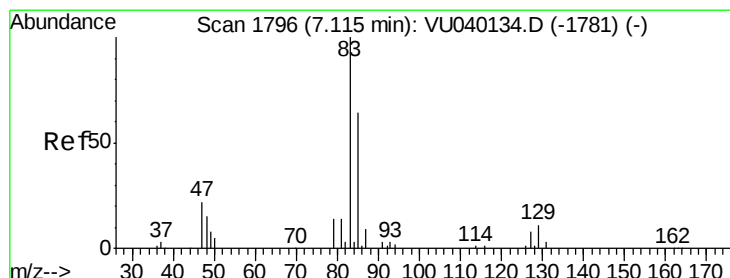
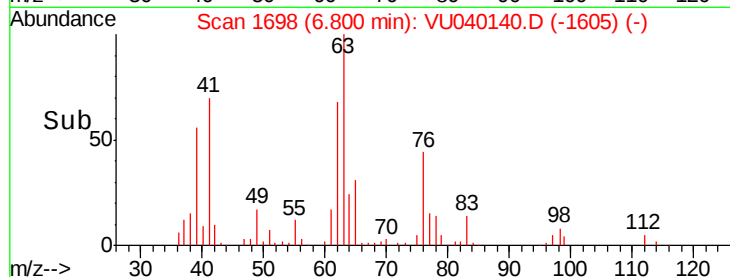
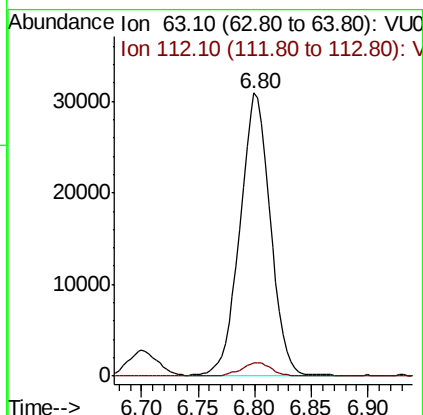
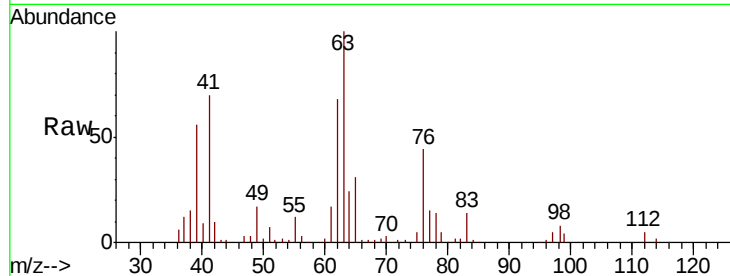




#37
 1,2-Dichloropropane
 Concen: 5.136 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

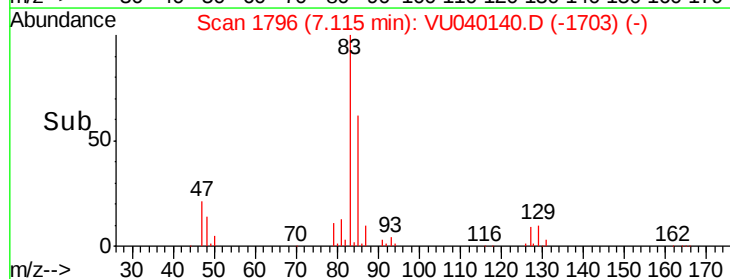
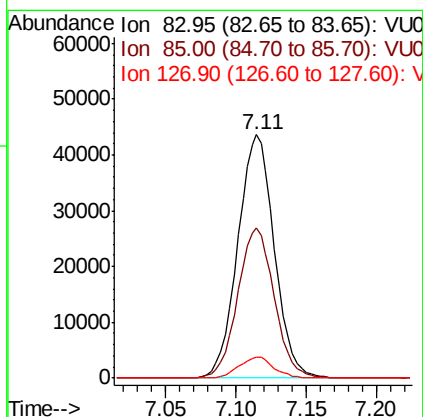
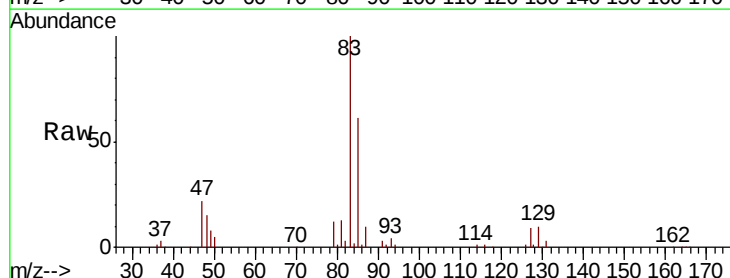
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

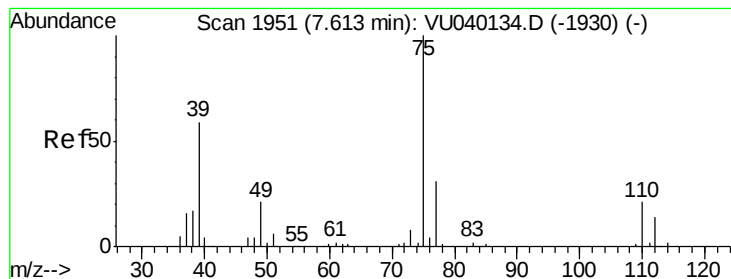
Tot Ion: 63 Resp: 58113
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.2 4.8



#38
 Bromodichloromethane
 Concen: 5.105 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

Tgt Ion: 83 Resp: 78841
 Ion Ratio Lower Upper
 83 100
 85 61.5 45.1 83.9
 127 8.6 6.7 10.1



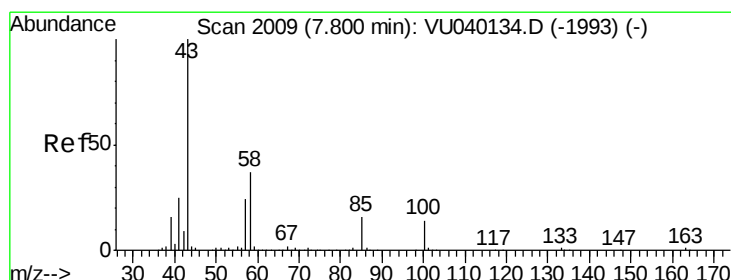
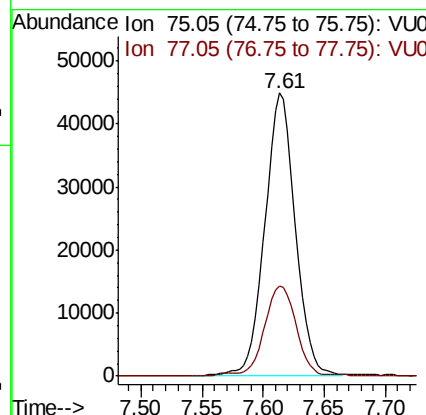
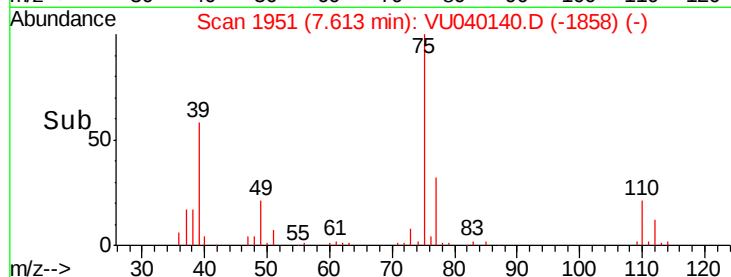
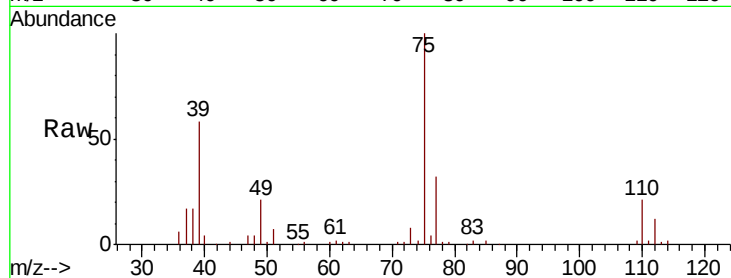


#39

cis-1,3-Dichloropropene
 Concen: 4.680 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

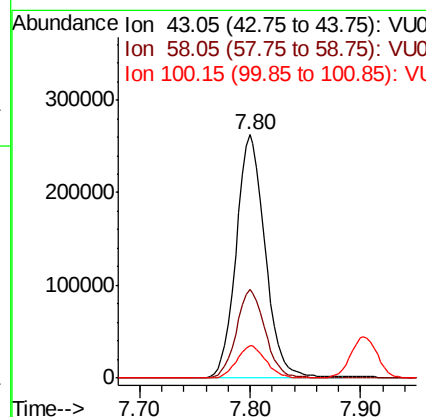
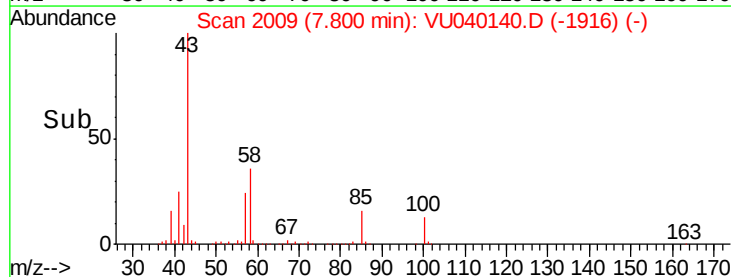
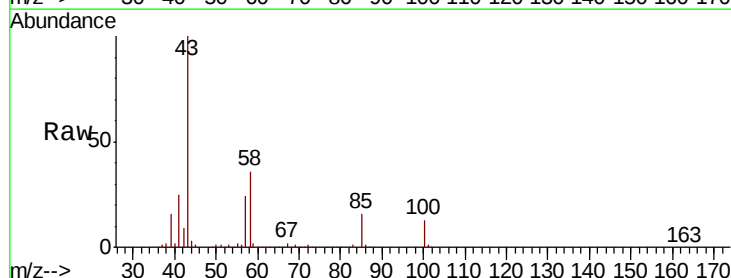
Tot Ion: 75 Resp: 78085
 Ion Ratio Lower Upper
 75 100
 77 31.8 21.1 39.3

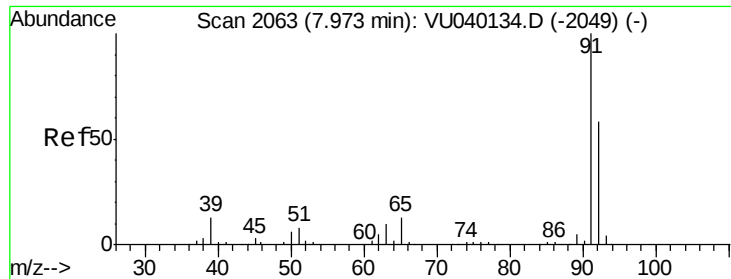


#40

4-Methyl-2-pentanone
 Concen: 51.412 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

Tgt Ion: 43 Resp: 477254
 Ion Ratio Lower Upper
 43 100
 58 36.2 28.7 43.1
 100 13.4 10.2 15.2





#42

Toluene

Concen: 5.212 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

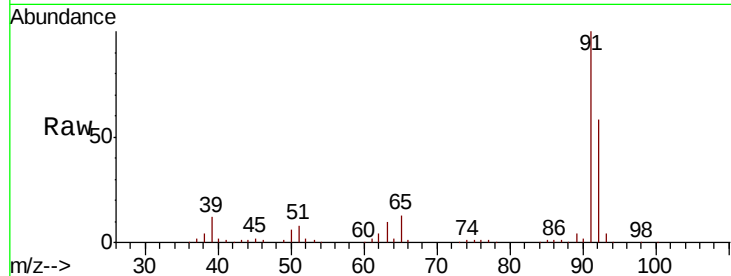
VSTD00507

Tot Ion: 91 Resp: 224274

Ion Ratio Lower Upper

91 100

92 58.1 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU040140.D (-1970) (-)

Ion 92.15 (91.85 to 92.85): VU040140.D (-1970) (-)

7.97

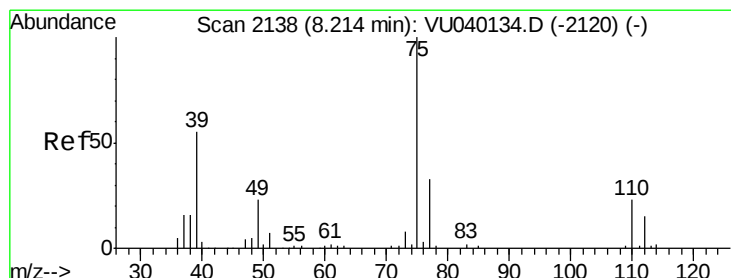
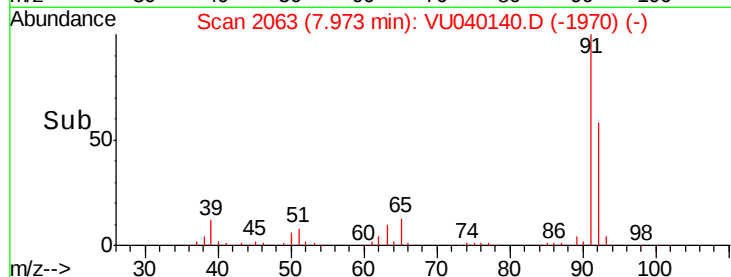
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.884 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040140.D

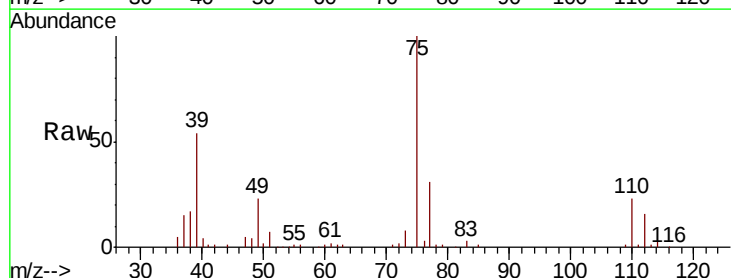
Acq: 15 Sep 2020 16:19

Tgt Ion: 75 Resp: 75509

Ion Ratio Lower Upper

75 100

77 30.9 23.9 44.3



Abundance Ion 75.05 (74.75 to 75.75): VU040140.D (-2045) (-)

Ion 77.05 (76.75 to 77.75): VU040140.D (-2045) (-)

8.21

50000

40000

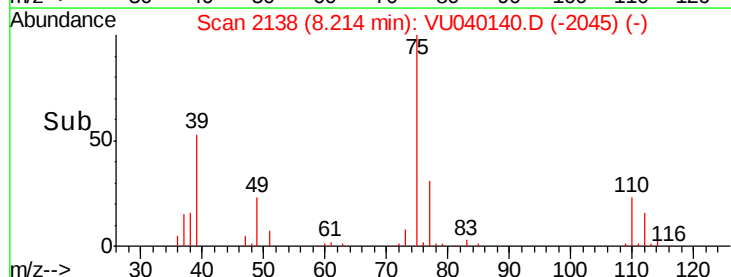
30000

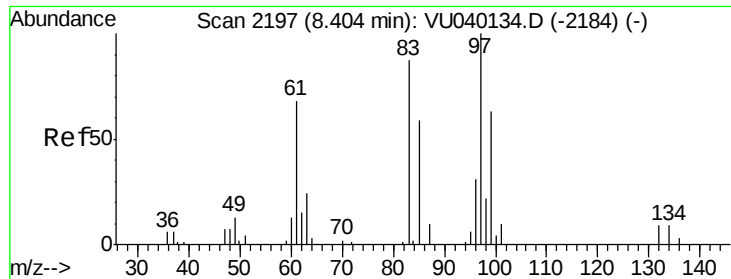
20000

10000

0

Time-->

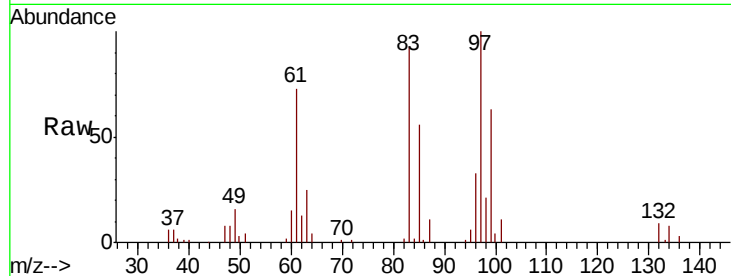




#45
 1,1,2-Trichloroethane
 Concen: 5.247 ug/L
 RT: 8.40 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tot Ion:	97	Resp:	43247
Ion	Ratio	Lower	Upper
97	100		
99	63.2	43.0	79.8
83	92.8	61.7	114.7
85	55.6	39.3	73.1



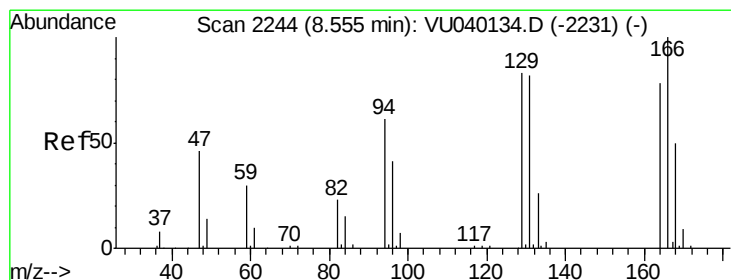
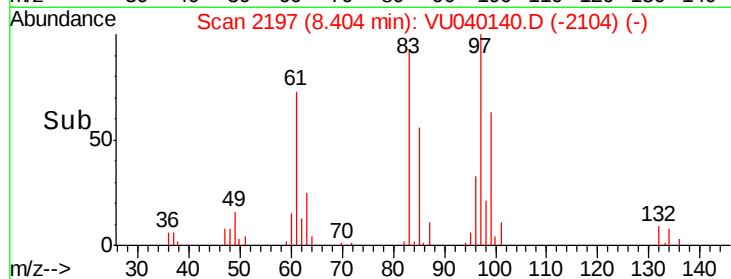
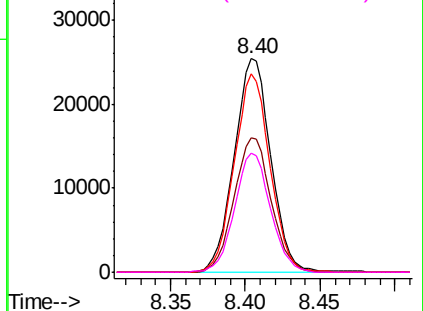
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

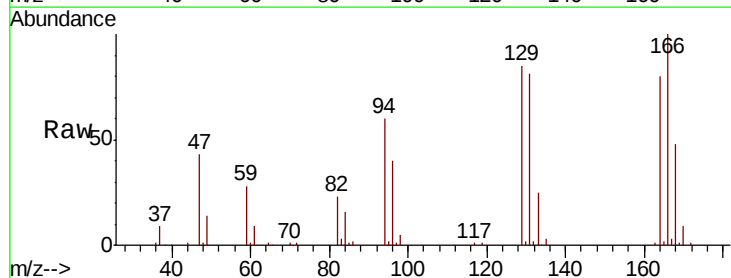
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 5.072 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

Tgt Ion:	164	Resp:	37341
Ion	Ratio	Lower	Upper
164	100		
129	106.6	71.5	132.7
131	101.3	65.9	122.5
166	125.4	87.3	162.1



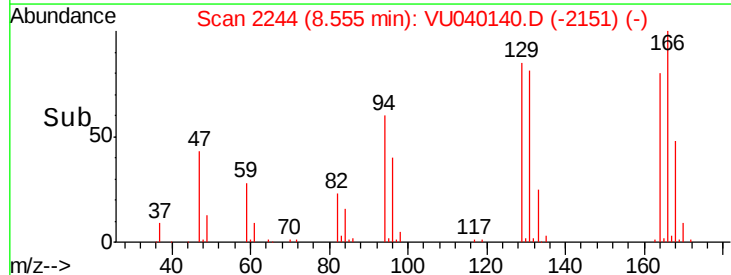
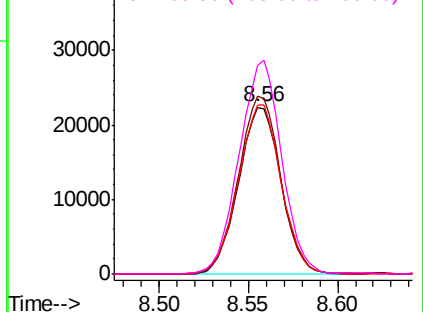
Abundance

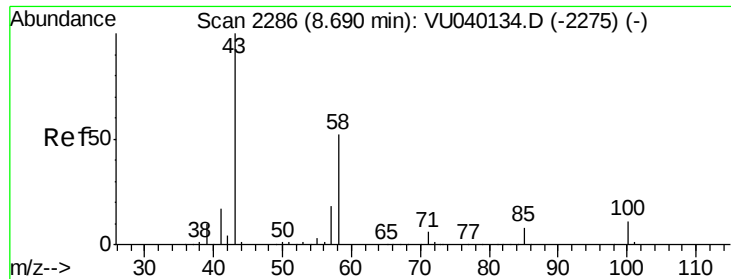
Ion 163.90 (163.60 to 164.60): V

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

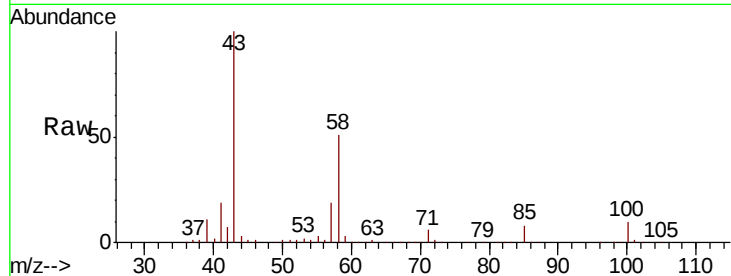




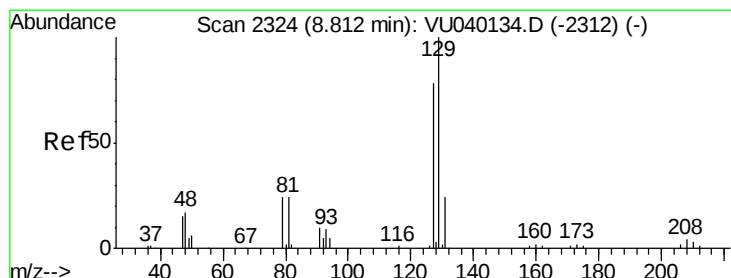
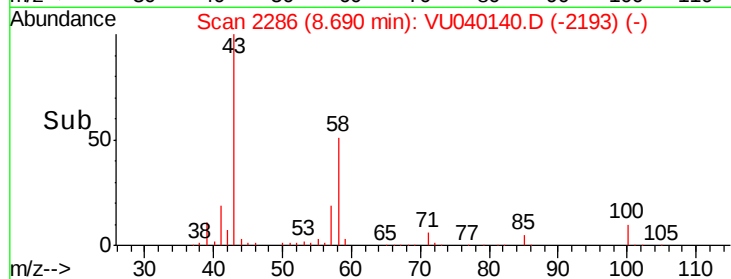
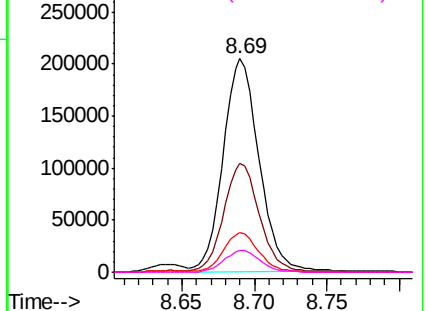
#48
2-Hexanone
Concen: 51.821 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Tot Ion:	43	Resp:	350895
Ion	Ratio	Lower	Upper
43	100		
58	51.9	39.6	59.4
57	18.5	14.3	21.5
100	10.5	8.0	12.0

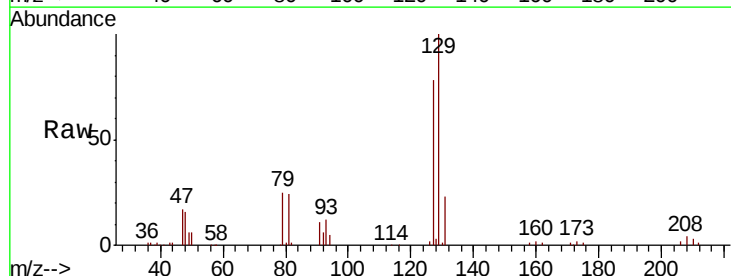


Abundance Ion 43.05 (42.75 to 43.75): VU040134.D (-2275) (-)
Ion 58.05 (57.75 to 58.75): VU040134.D (-2275) (-)
Ion 57.20 (56.90 to 57.90): VU040134.D (-2275) (-)
Ion 100.15 (99.85 to 100.85): VU040134.D (-2275) (-)

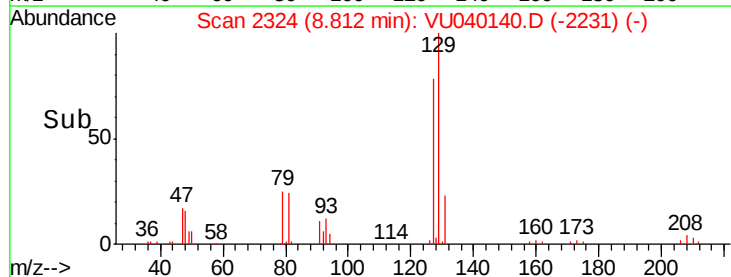
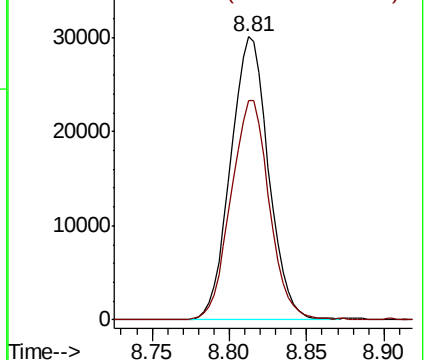


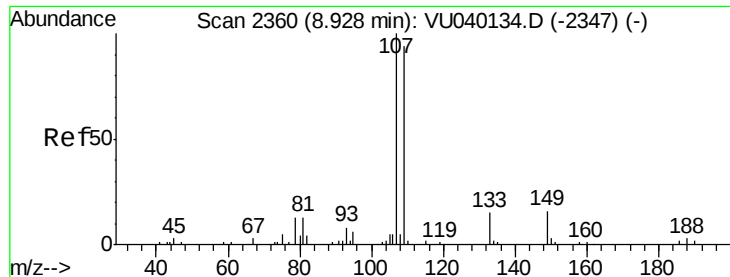
#49
Dibromochloromethane
Concen: 5.169 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

Tgt Ion:	129	Resp:	51133
Ion	Ratio	Lower	Upper
129	100		
127	77.7	53.7	99.7



Abundance Ion 128.95 (128.65 to 129.65): VU040134.D (-2312) (-)
Ion 126.90 (126.60 to 127.60): VU040134.D (-2312) (-)

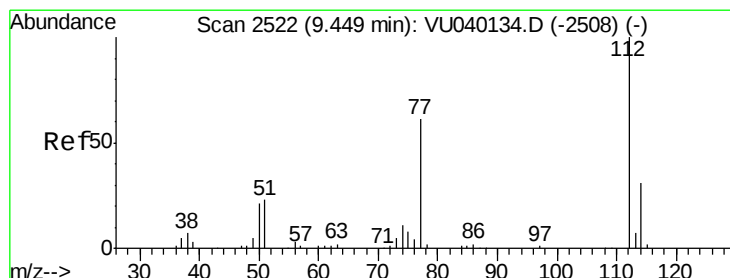
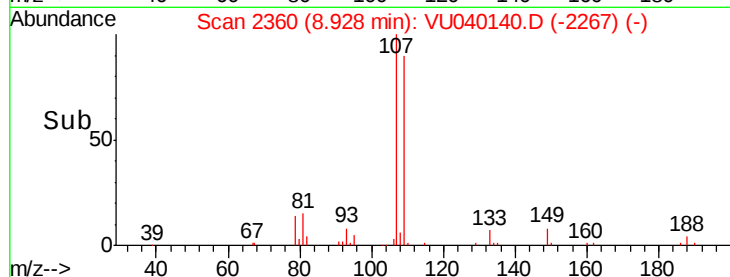
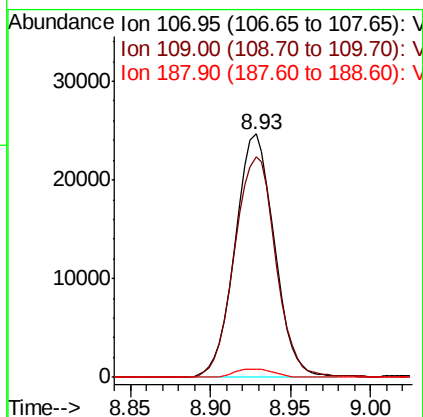
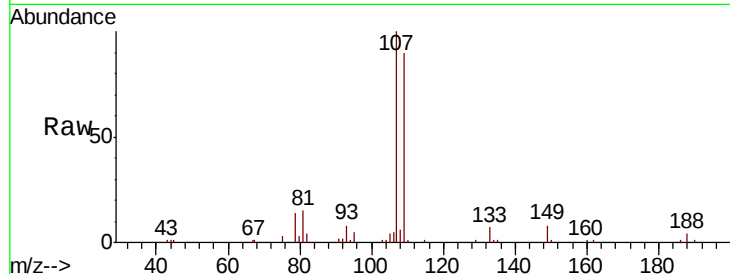




#50
 1,2-Dibromoethane
 Concen: 5.197 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

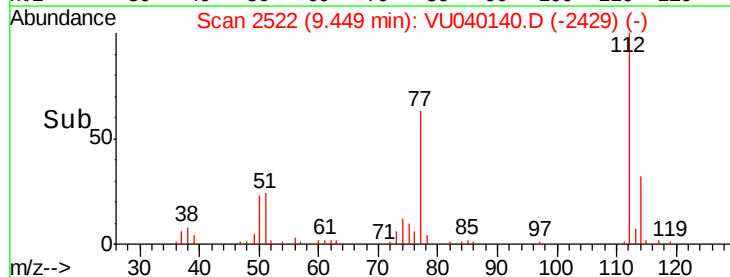
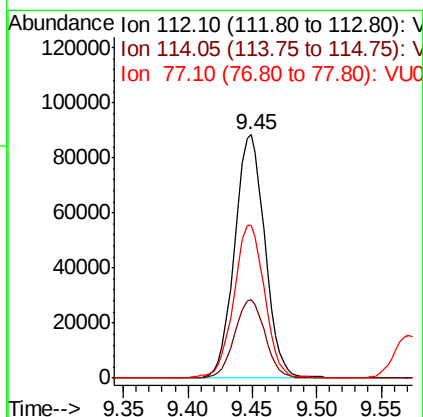
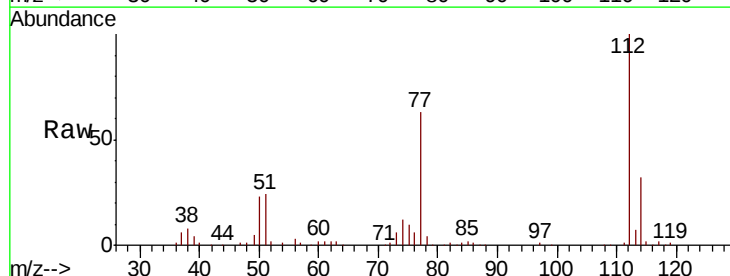
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

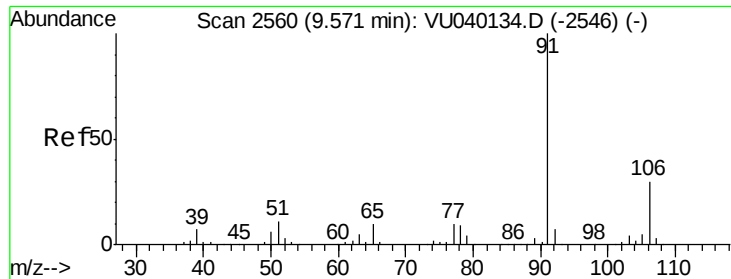
Tot Ion:107 Resp: 41300
 Ion Ratio Lower Upper
 107 100
 109 90.4 62.4 115.8
 188 3.5 2.3 3.5#



#51
 Chlorobenzene
 Concen: 5.398 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

Tgt Ion:112 Resp: 144215
 Ion Ratio Lower Upper
 112 100
 114 32.4 22.7 42.3
 77 62.8 53.2 79.8





#52

Ethylbenzene

Concen: 5.079 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

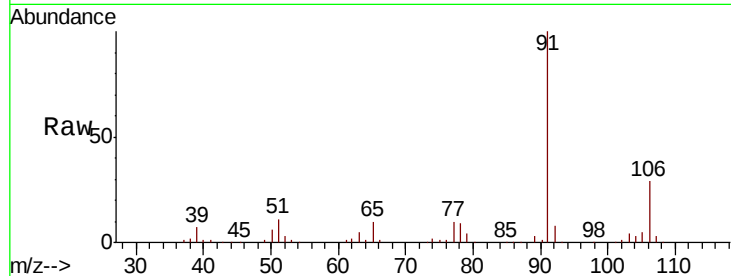
VSTD00507

Tot Ion: 91 Resp: 248327

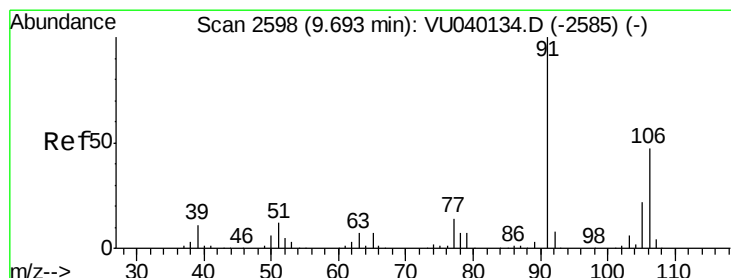
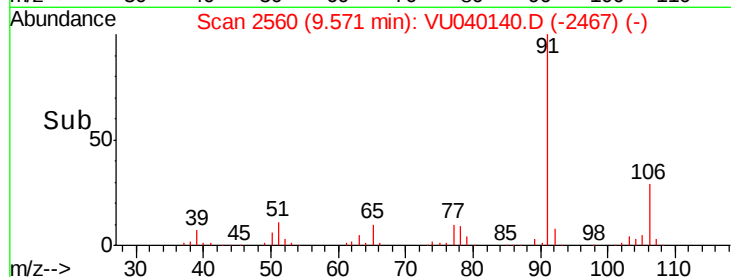
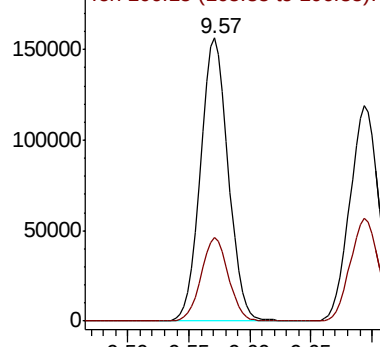
Ion Ratio Lower Upper

91 100

106 29.4 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU040140.D (-2546) (-)



#53

m,p-Xylene

Concen: 5.306 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040140.D

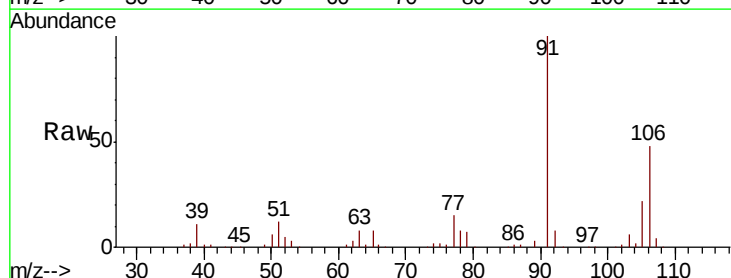
Acq: 15 Sep 2020 16:19

Tgt Ion: 106 Resp: 92371

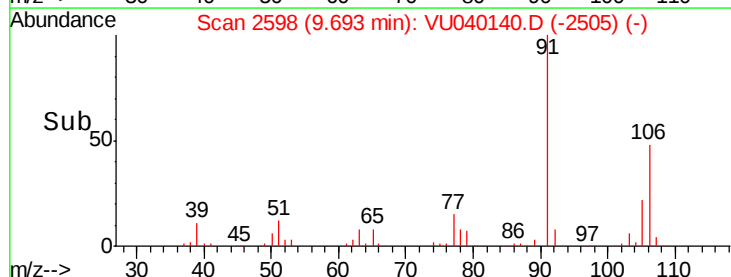
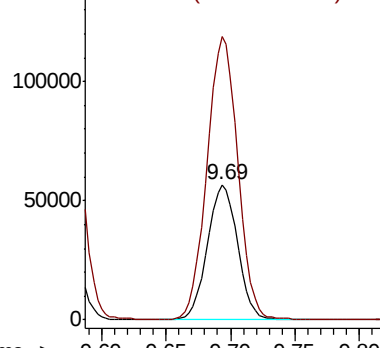
Ion Ratio Lower Upper

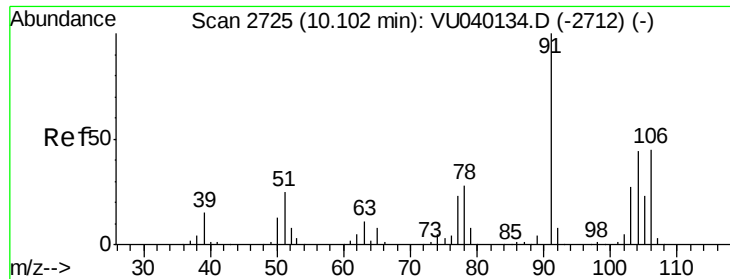
106 100

91 209.8 151.7 281.7



Abundance Ion 106.15 (105.85 to 106.85): VU040140.D (-2585) (-)

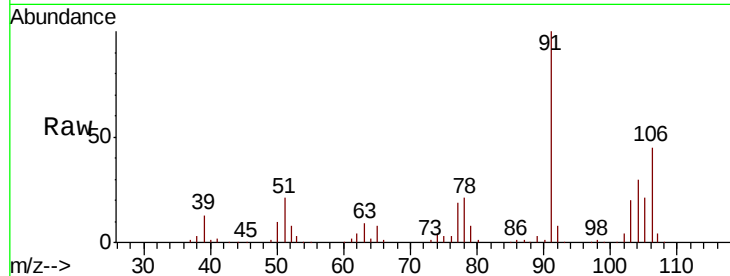




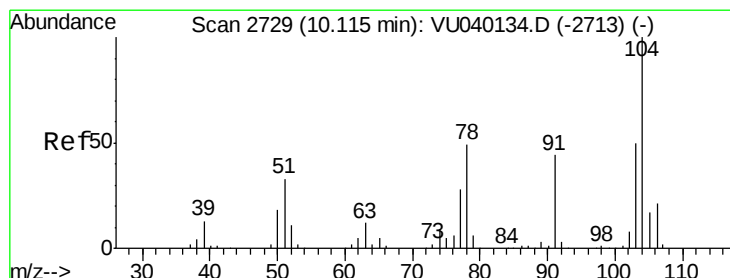
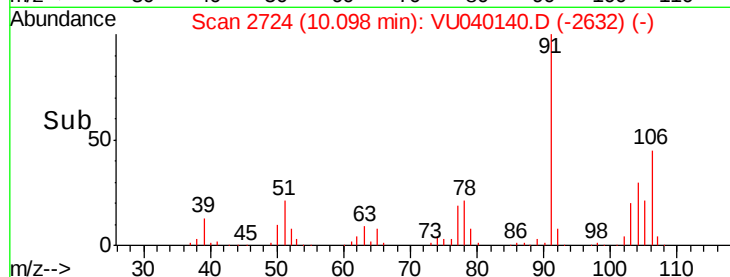
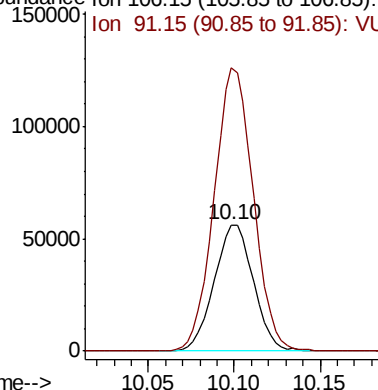
#54
o-Xylene
Concen: 5.370 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Tot Ion:106 Resp: 89079
Ion Ratio Lower Upper
106 100
91 224.7 160.8 298.6

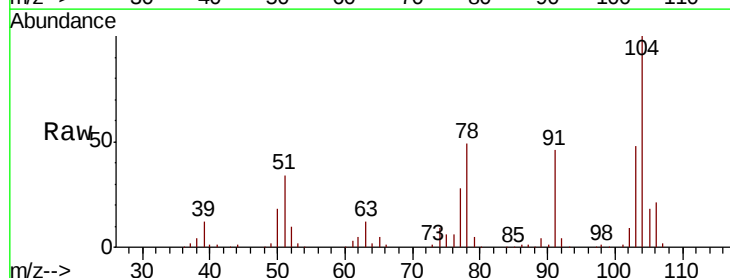


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

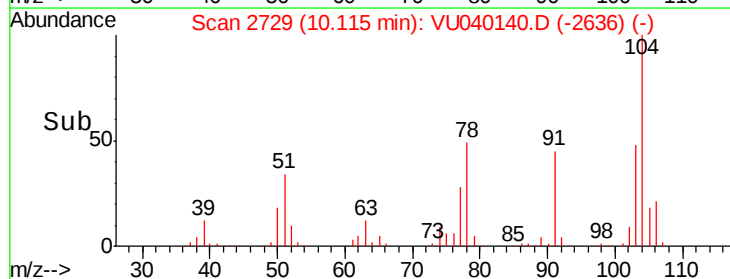
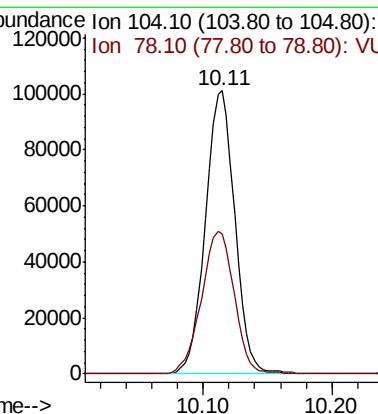


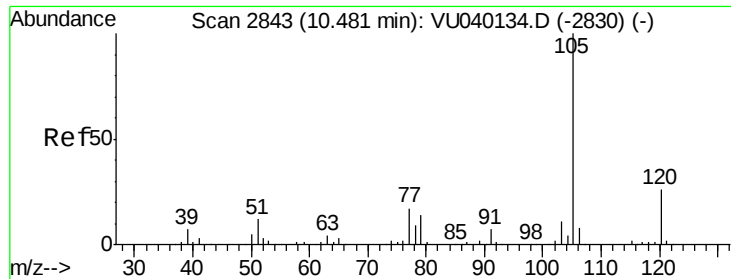
#55
Styrene
Concen: 5.573 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040140.D
Acq: 15 Sep 2020 16:19

Tgt Ion:104 Resp: 160766
Ion Ratio Lower Upper
104 100
78 49.3 36.8 68.3



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





#56

Isopropylbenzene

Concen: 5.369 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

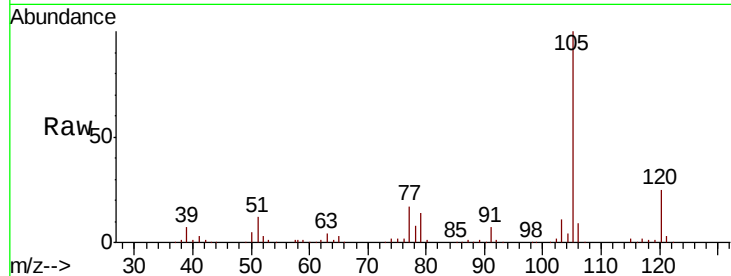
Tot Ion:105 Resp: 242880

Ion Ratio Lower Upper

105 100

120 25.1 20.1 30.1

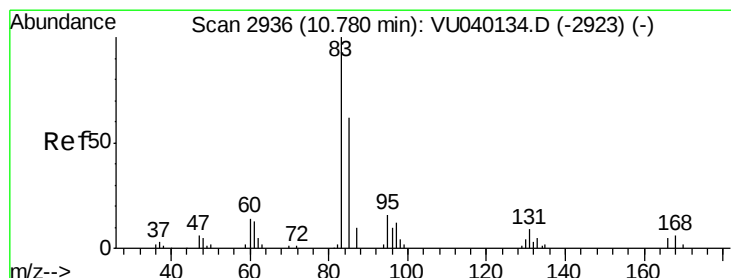
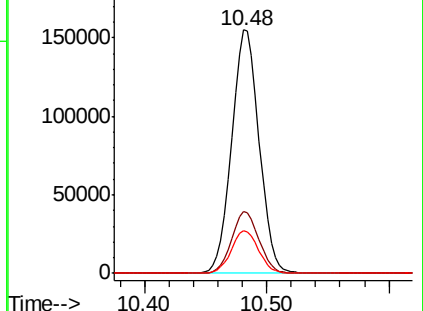
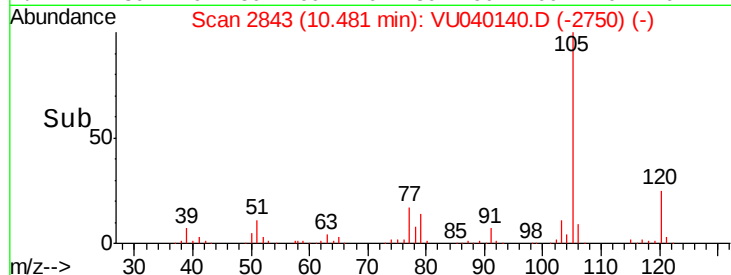
77 17.4 14.4 21.6



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: 5.359 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

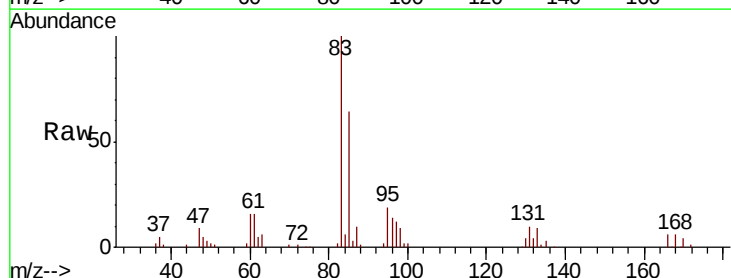
Tgt Ion: 83 Resp: 56637

Ion Ratio Lower Upper

83 100

85 64.1 44.9 83.3

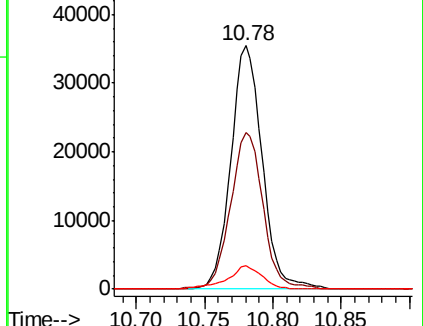
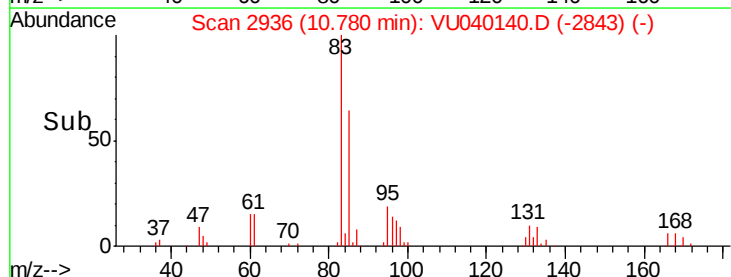
131 9.8 7.4 11.0

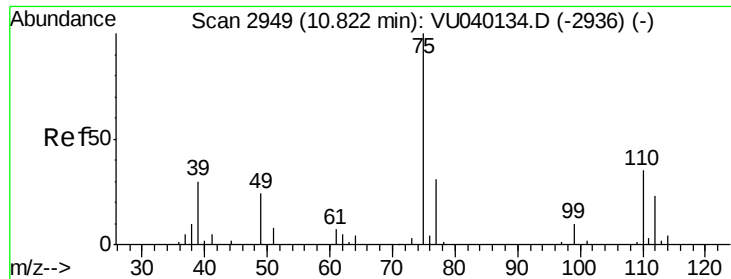


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

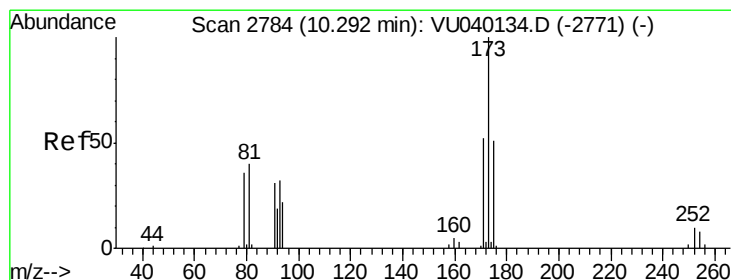
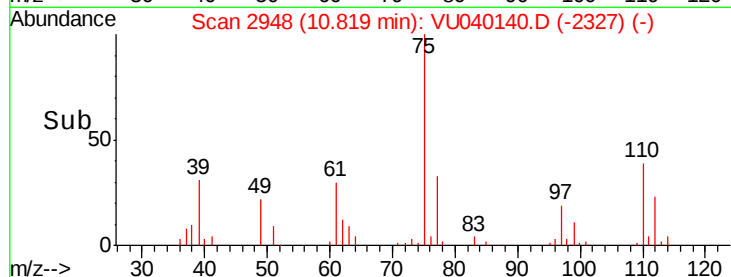
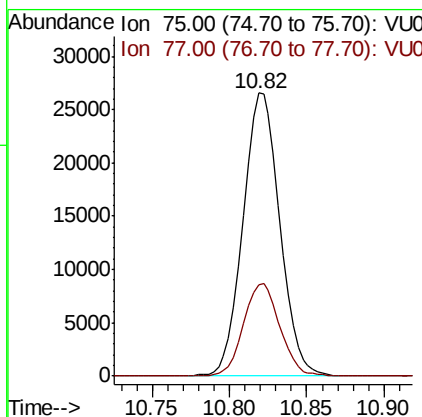
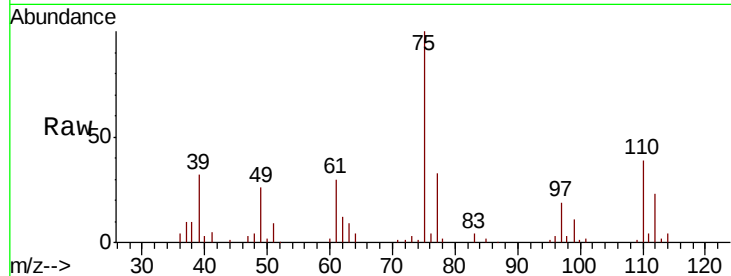




#59
 1,2,3-Trichloropropane
 Concen: 5.254 ug/L
 RT: 10.82 min Scan# 2948
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

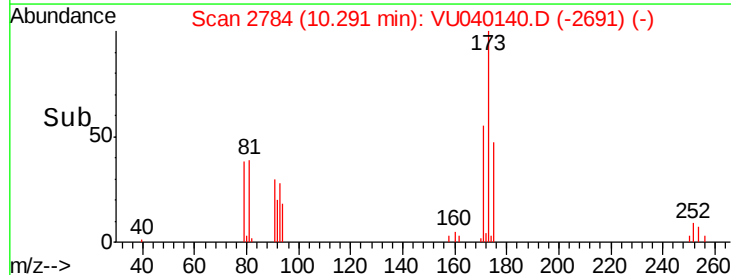
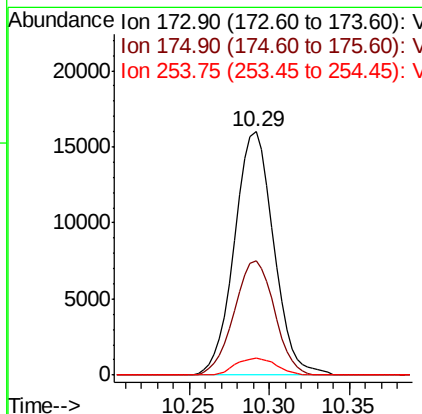
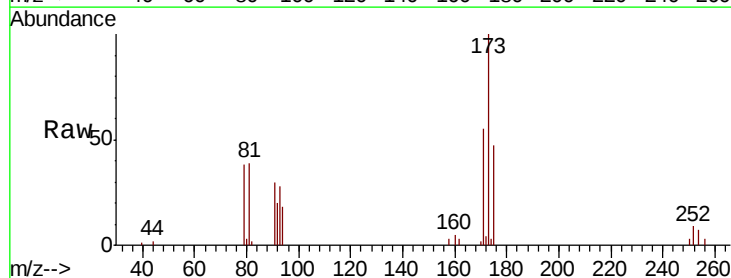
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

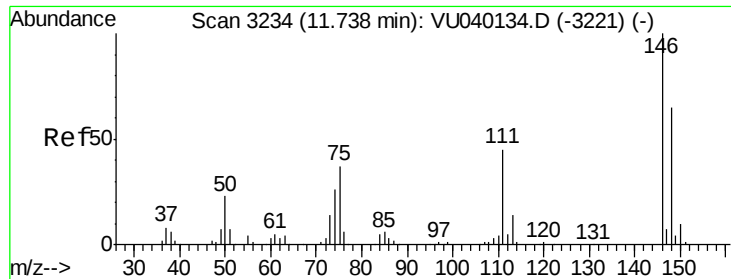
Tot Ion: 75 Resp: 44037
 Ion Ratio Lower Upper
 75 100
 77 32.2 24.9 37.3



#61
 Bromoform
 Concen: 4.841 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

Tgt Ion: 173 Resp: 26707
 Ion Ratio Lower Upper
 173 100
 175 48.1 37.8 56.6
 254 7.2 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 5.193 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

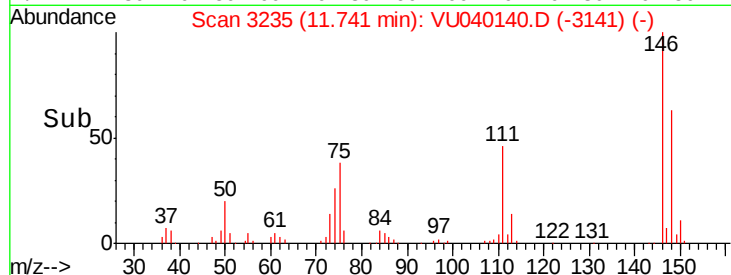
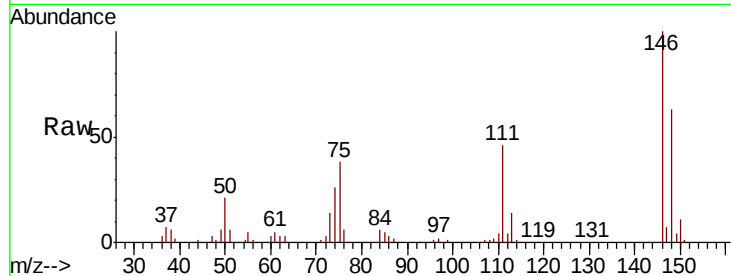
Tot Ion:146 Resp: 114173

Ion Ratio Lower Upper

146 100

111 45.8 31.6 58.8

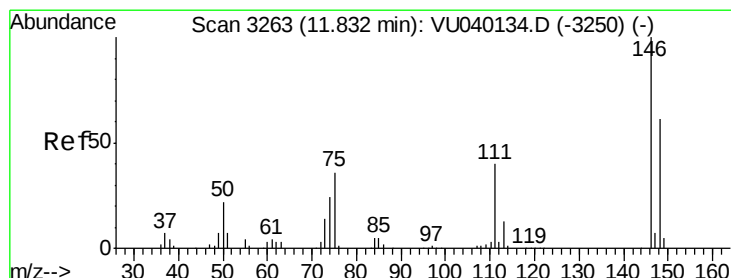
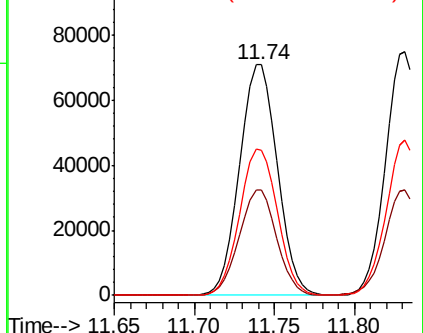
148 63.1 44.2 82.0



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: 5.277 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

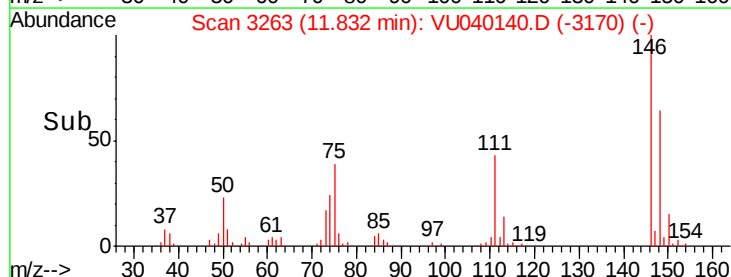
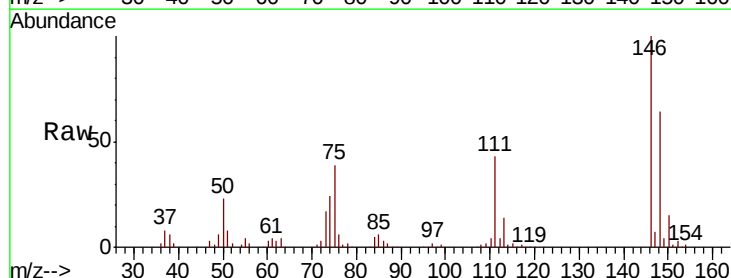
Tgt Ion:146 Resp: 117398

Ion Ratio Lower Upper

146 100

111 43.1 30.5 56.7

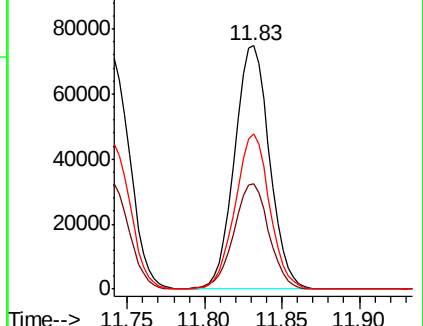
148 64.0 45.4 84.4

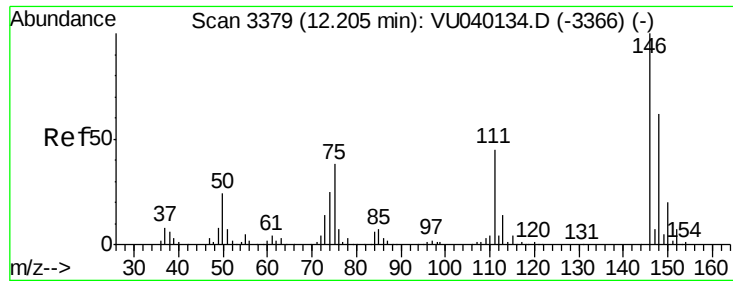


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.307 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

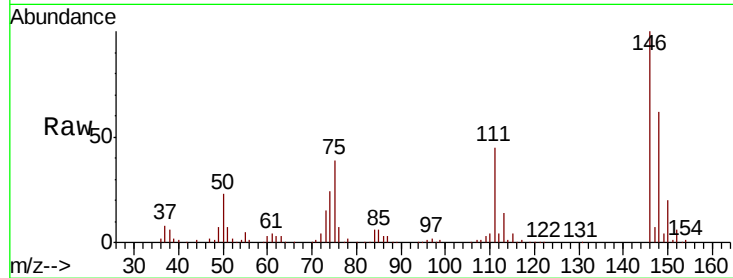
Tot Ion:146 Resp: 112902

Ion Ratio Lower Upper

146 100

111 45.2 36.5 54.7

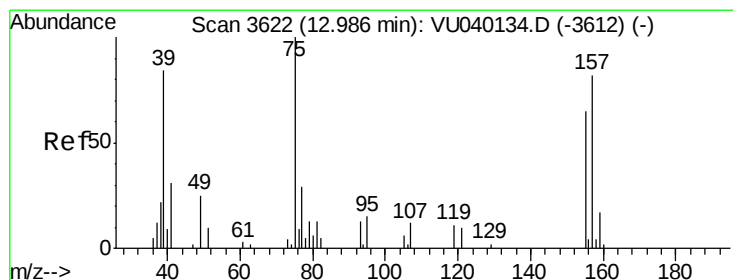
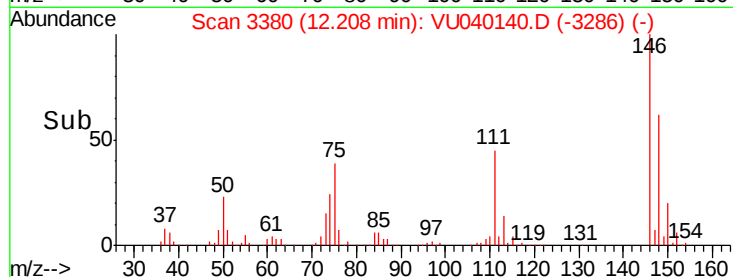
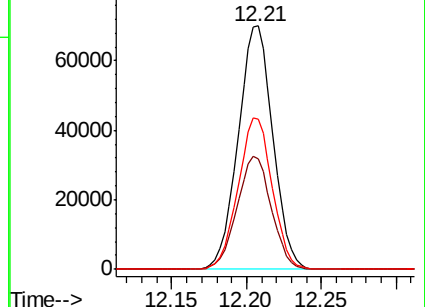
148 61.9 48.6 72.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.233 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

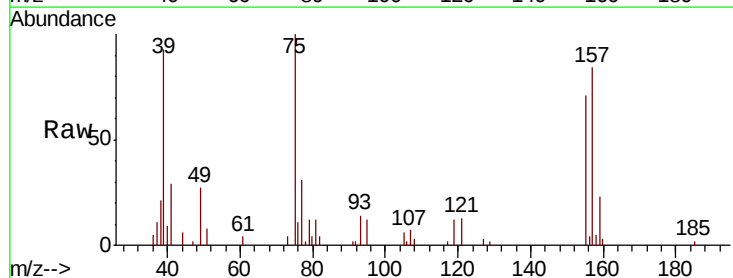
Tgt Ion: 75 Resp: 9630

Ion Ratio Lower Upper

75 100

155 70.8 54.6 82.0

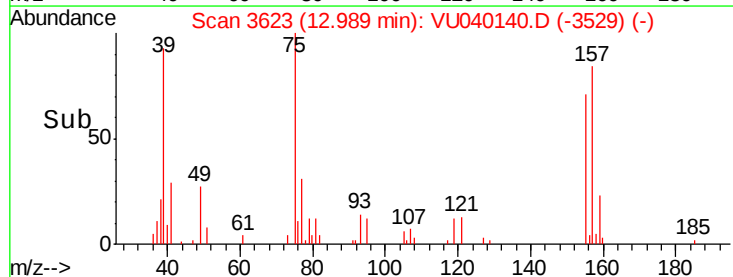
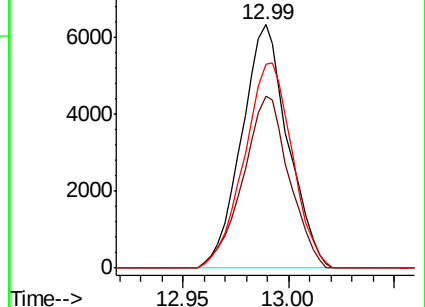
157 83.8 75.6 113.4

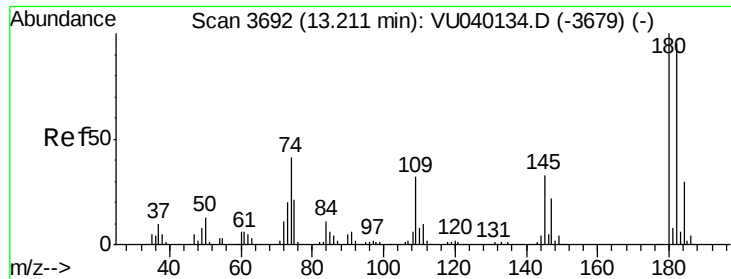


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

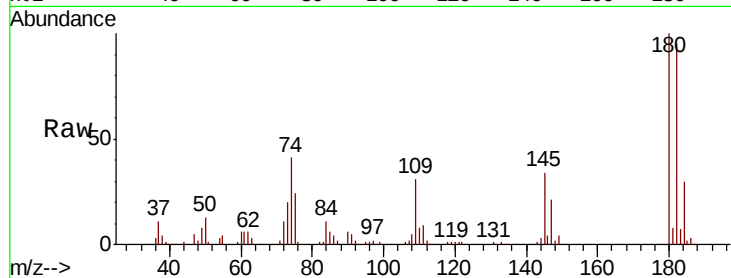




#67
 1,3,5-Trichlorobenzene
 Concen: 5.066 ug/L
 RT: 13.21 min Scan# 3691
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.8	76.9	115.3
184	29.9	24.6	36.8
145	34.6	27.0	40.6



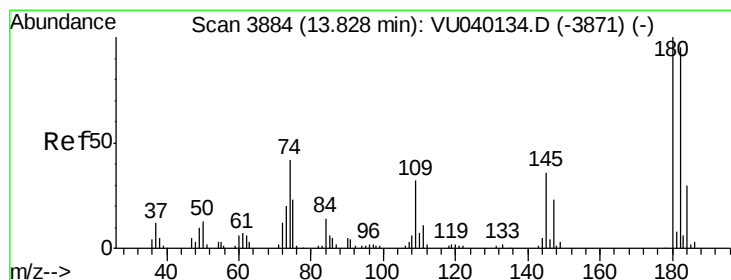
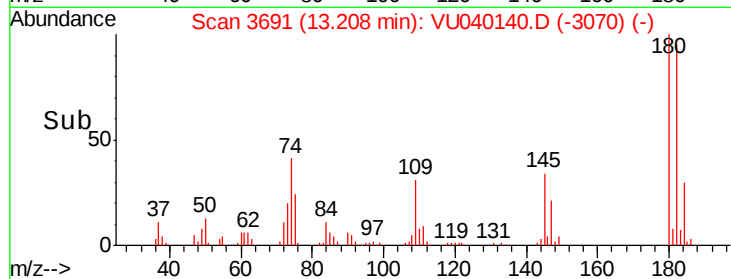
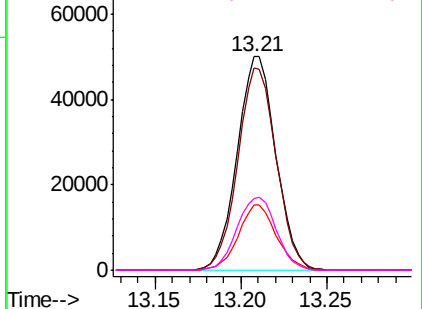
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

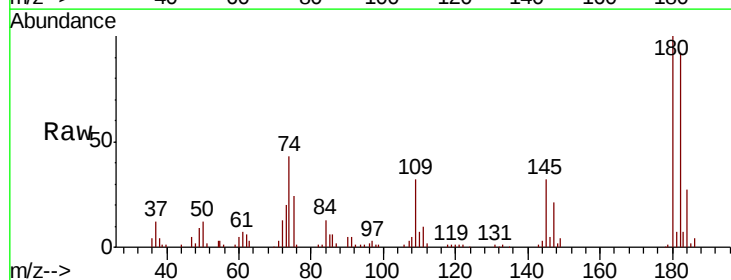
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.740 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040140.D
 Acq: 15 Sep 2020 16:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.0	114.0
145	33.9	28.4	42.6

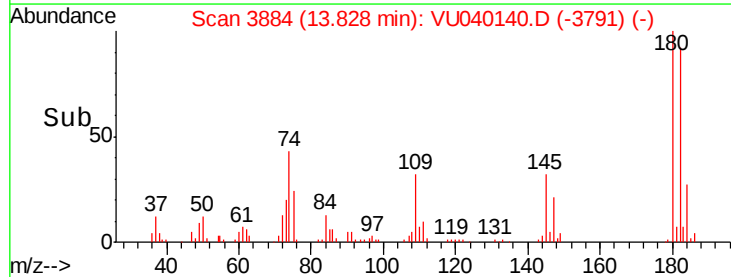
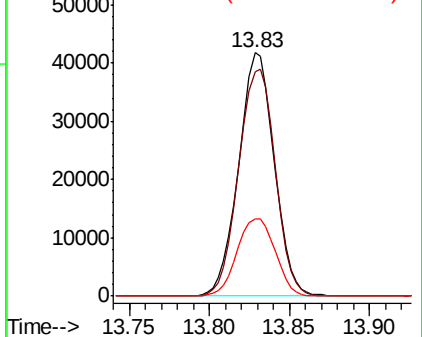


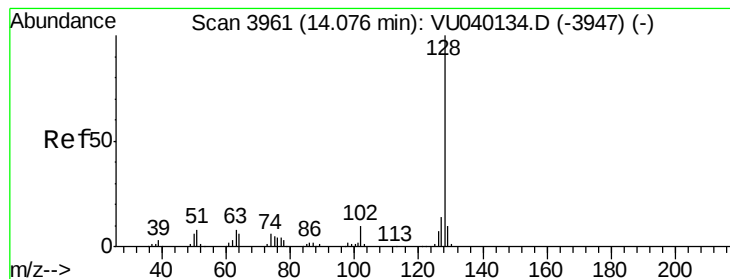
Abundance

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: 4.197 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

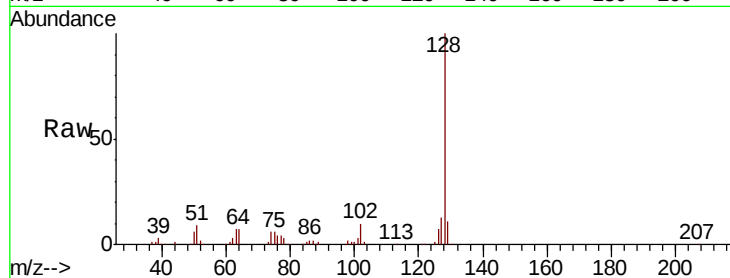
Tot Ion:128 Resp: 116486

Ion Ratio Lower Upper

128 100

129 10.4 8.7 13.1

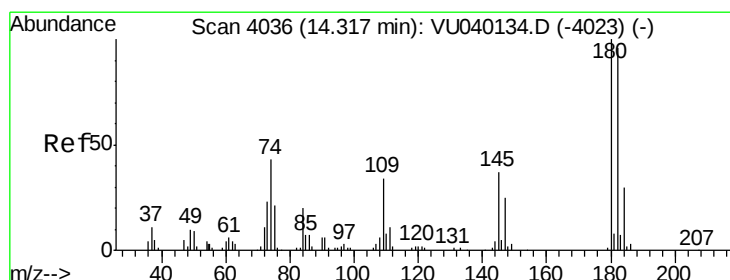
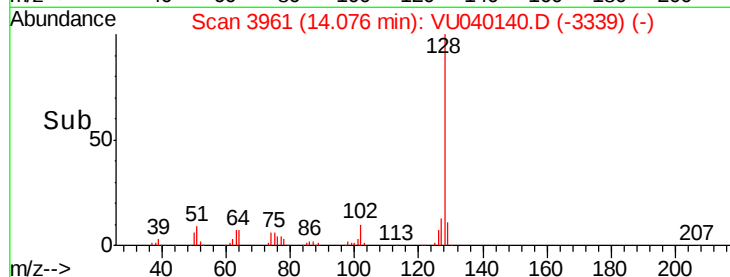
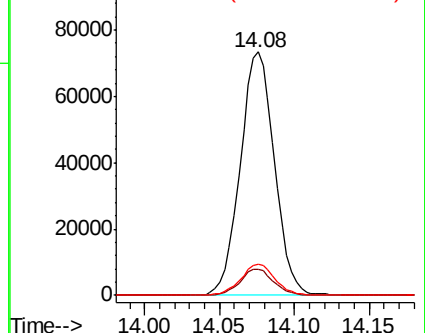
127 12.8 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.954 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU040140.D

Acq: 15 Sep 2020 16:19

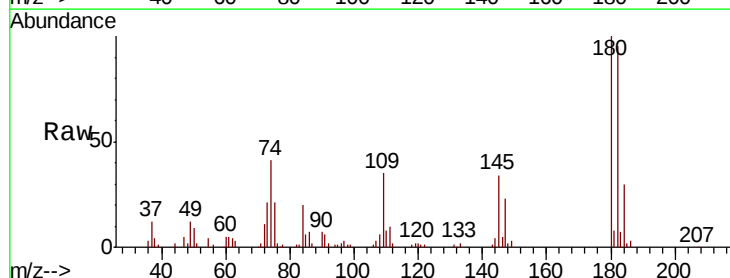
Tgt Ion:180 Resp: 60588

Ion Ratio Lower Upper

180 100

182 93.3 77.8 116.6

145 35.9 28.7 43.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

