

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U060920\
 Data File : VU038726.D
 Acq On : 09 Jun 2020 15:50
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

Quant Time: Jun 10 00:37:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jun 10 00:33:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	536553	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	531495	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	273942	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	147754	49.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.58%
7) Chloroethane-d5	1.93	69	123614	53.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.32%
11) 1,1-Dichloroethene-d2	2.59	63	337938	51.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.44%
21) 2-Butanone-d5	4.66	46	316691	108.59	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.59%
24) Chloroform-d	5.10	84	341481	52.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.66%
26) 1,2-Dichloroethane-d4	5.74	65	220441	51.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.92%
32) Benzene-d6	5.76	84	671176	52.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.84%
36) 1,2-Dichloropropane-d6	6.72	67	207516	52.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.18%
41) Toluene-d8	7.92	98	617047	53.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.66%
43) trans-1,3-Dichloropropene-	8.20	79	104099	52.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	104.80%
47) 2-Hexanone-d5	8.65	63	222707	106.04	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.04%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	304467	51.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.46%
64) 1,2-Dichlorobenzene-d4	12.20	152	249676	52.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.98%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	228520	53.784	ug/L 100
3) Chloromethane	1.53	50	199739	48.731	ug/L 99
5) Vinyl chloride	1.62	62	214671	50.008	ug/L 97
6) Bromomethane	1.87	94	112834	50.470	ug/L 98
8) Chloroethane	1.95	64	135915	54.123	ug/L 100
9) Trichlorofluoromethane	2.16	101	315342	53.342	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	187992	54.557	ug/L 99
12) 1,1-Dichloroethene	2.60	96	182481	53.731	ug/L 95
13) Acetone	2.65	43	285753	121.591	ug/L 98
14) Carbon disulfide	2.82	76	580574	52.792	ug/L 100
15) Methyl Acetate	2.98	43	256573	52.243	ug/L 99
16) Methylene chloride	3.08	84	205924	51.069	ug/L 99
17) trans-1,2-Dichloroethene	3.38	96	195283	52.546	ug/L 99
18) Methyl tert-butyl Ether	3.40	73	627232	52.199	ug/L 100
19) 1,1-Dichloroethane	3.91	63	365646	51.923	ug/L 97
20) cis-1,2-Dichloroethene	4.71	96	212960	51.838	ug/L 99
22) 2-Butanone	4.74	43	404862	112.335	ug/L 99

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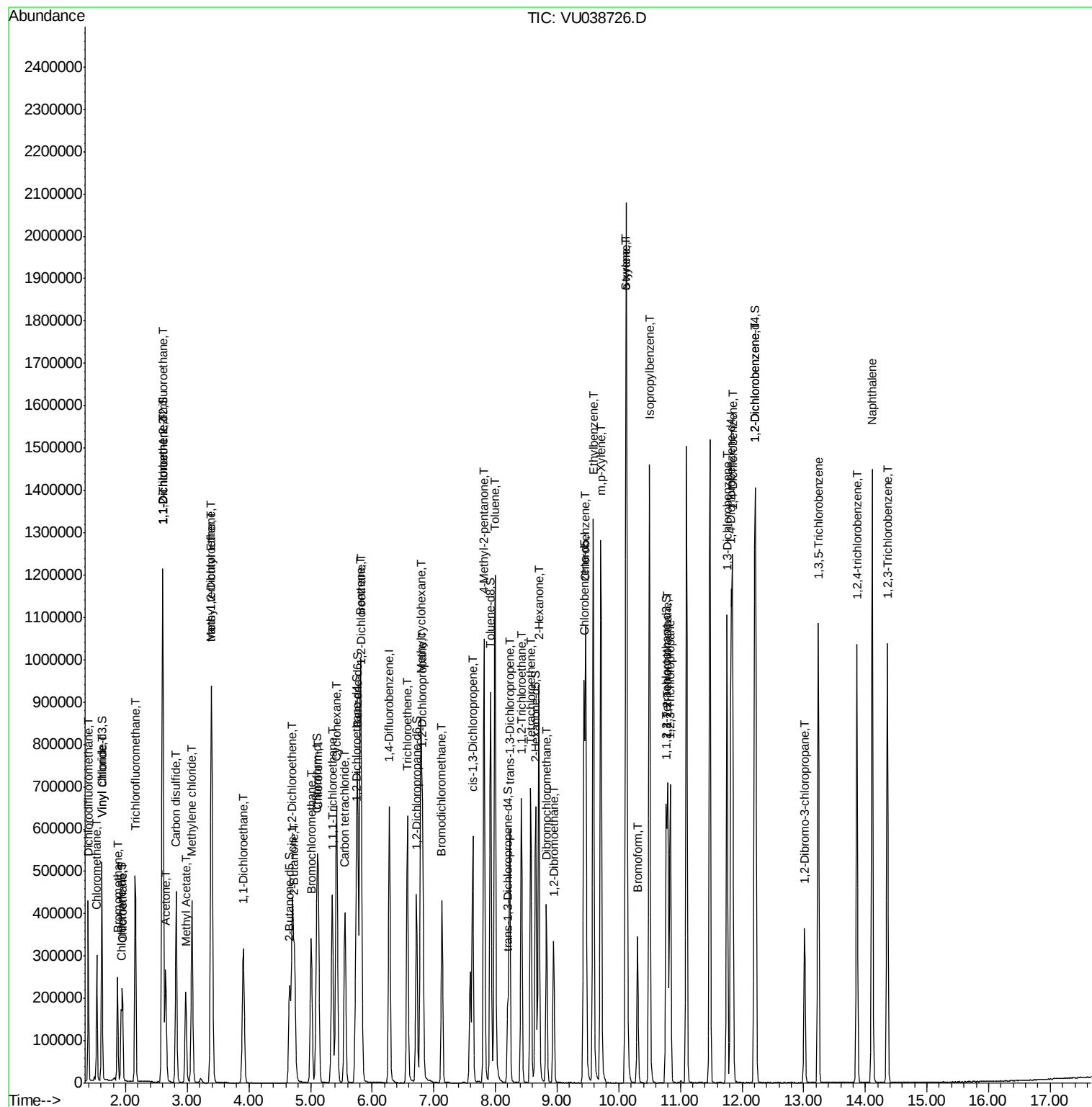
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	105384	51.790	ug/L	99
25) Chloroform	5.12	83	369638	52.448	ug/L	96
27) 1,2-Dichloroethane	5.83	62	303284	52.019	ug/L	99
29) Cyclohexane	5.42	56	334261	54.970	ug/L	100
30) 1,1,1-Trichloroethane	5.35	97	327191	52.392	ug/L	100
31) Carbon tetrachloride	5.56	117	274634	53.122	ug/L	100
33) Benzene	5.81	78	835619	52.944	ug/L	100
34) Trichloroethene	6.57	95	214764	53.502	ug/L	99
35) Methylcyclohexane	6.79	83	329331	54.401	ug/L	99
37) 1,2-Dichloropropane	6.82	63	212616	51.696	ug/L	99
38) Bromodichloromethane	7.13	83	275838	52.317	ug/L	99
39) cis-1,3-Dichloropropene	7.63	75	338396	53.350	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	661601	102.897	ug/L	99
42) Toluene	7.99	91	891359	54.013	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	322014	53.002	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	202631	51.188	ug/L	97
46) Tetrachloroethene	8.57	164	154953	53.506	ug/L	99
48) 2-Hexanone	8.70	43	568804	107.017	ug/L	99
49) Dibromochloromethane	8.83	129	212388	52.242	ug/L	98
50) 1,2-Dibromoethane	8.94	107	218915	51.451	ug/L	100
51) Chlorobenzene	9.47	112	561365	52.949	ug/L	99
52) Ethylbenzene	9.59	91	996172	54.695	ug/L	99
53) m,p-Xylene	9.71	106	388314	55.541	ug/L	98
54) o-xylene	10.11	106	375798	55.369	ug/L	97
55) Styrene	10.13	104	640857	54.467	ug/L	96
56) Isopropylbenzene	10.50	105	974131	54.992	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	340088	50.480	ug/L	99
59) 1,2,3-Trichloropropane	10.83	75	295707	51.278	ug/L	99
61) Bromoform	10.30	173	152182	50.650	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	442994	52.395	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	449262	52.475	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	435294	51.728	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	90664	51.989	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	321627	52.954	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	304794	53.231	ug/L	99
69) Naphthalene	14.11	128	1115784	55.122	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	308610	53.722	ug/L	100

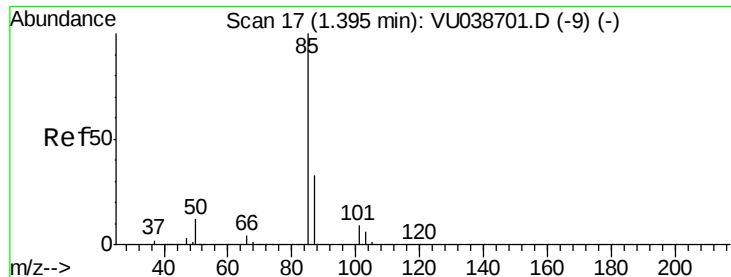
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 53.784 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

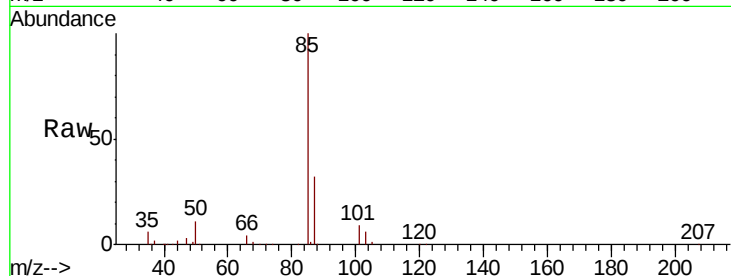
VSTD05045

Tot Ion: 85 Resp: 228520

Ion Ratio Lower Upper

85 100

87 32.1 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU038701.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038701.D (-9) (-)

1.39

250000

200000

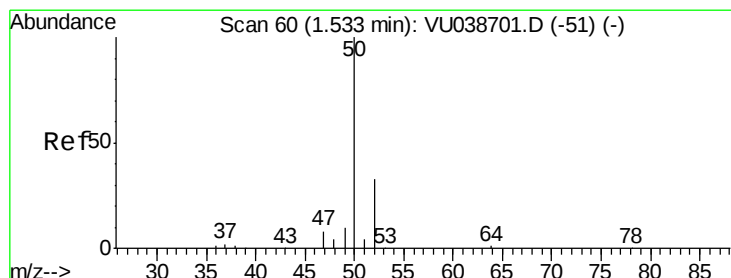
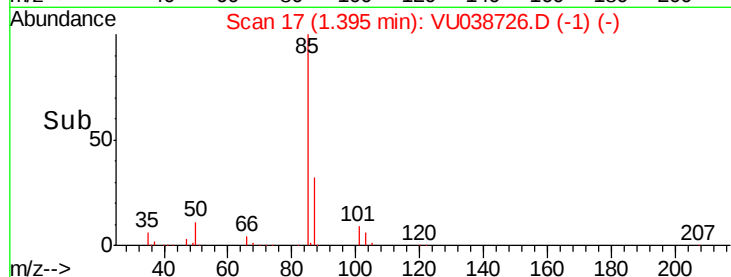
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 48.731 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038726.D

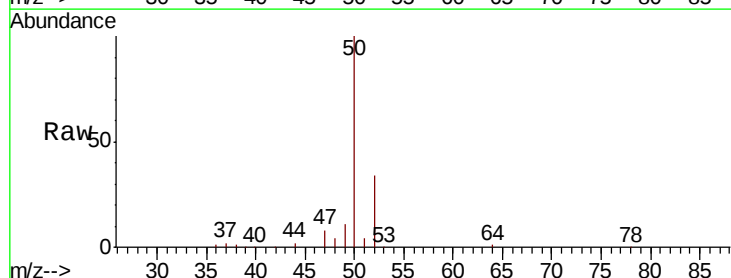
Acq: 09 Jun 2020 15:50

Tgt Ion: 50 Resp: 199739

Ion Ratio Lower Upper

50 100

52 34.0 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU038701.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU038701.D (-51) (-)

1.53

200000

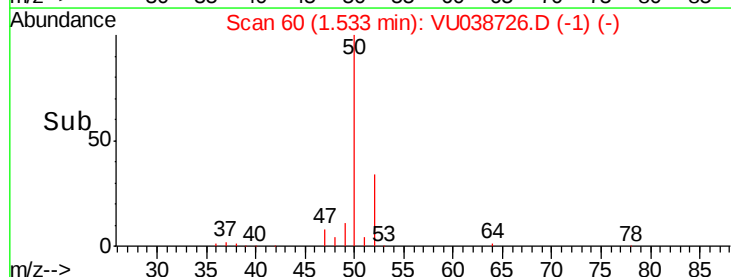
150000

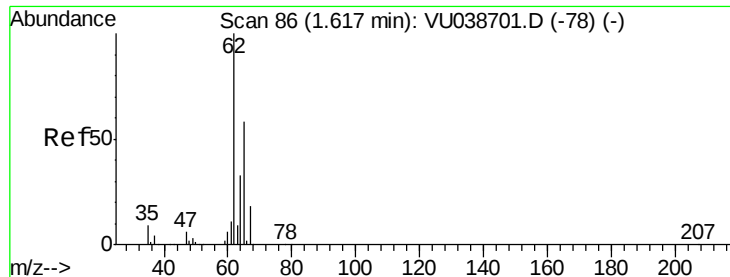
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 50.008 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

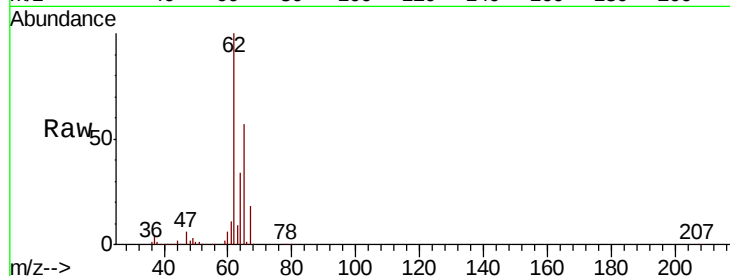
VSTD05045

Tot Ion: 62 Resp: 214671

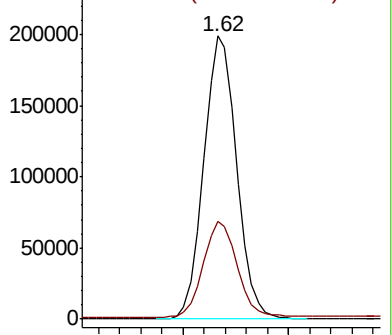
Ion Ratio Lower Upper

62 100

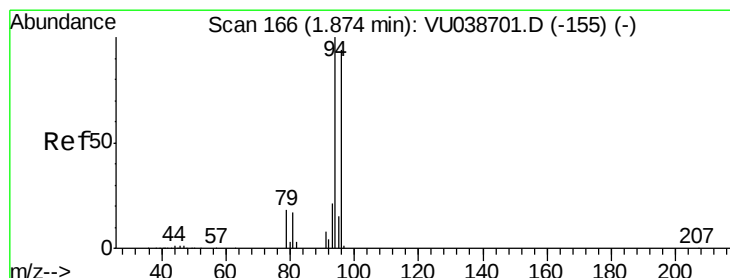
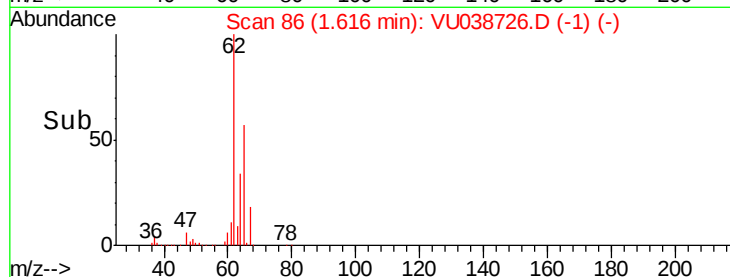
64 34.4 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU038726.D (-1) (-)



Time-->



#6

Bromomethane

Concen: 50.470 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU038726.D

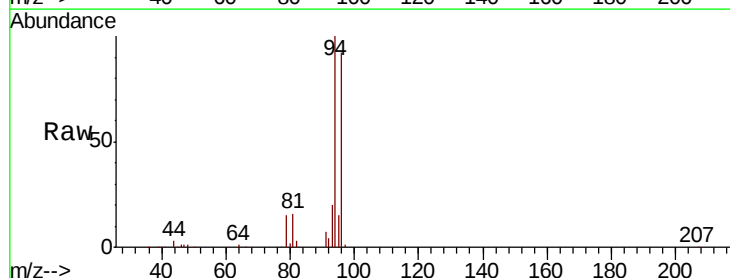
Acq: 09 Jun 2020 15:50

Tgt Ion: 94 Resp: 112834

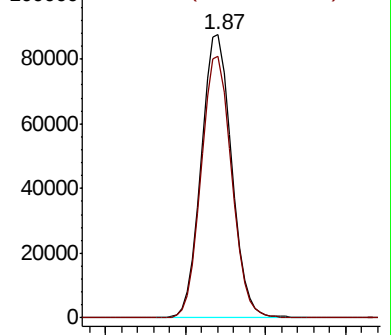
Ion Ratio Lower Upper

94 100

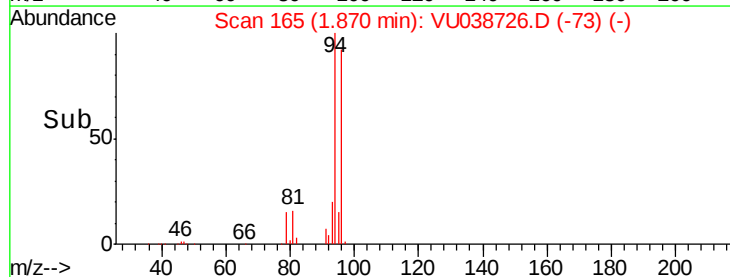
96 92.2 66.2 123.0

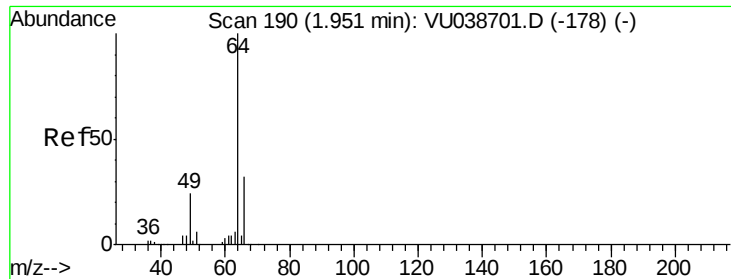


Abundance Ion 94.00 (93.70 to 94.70): VU038726.D (-73) (-)



Time-->

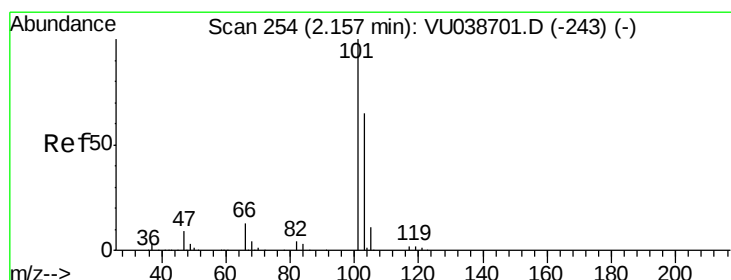
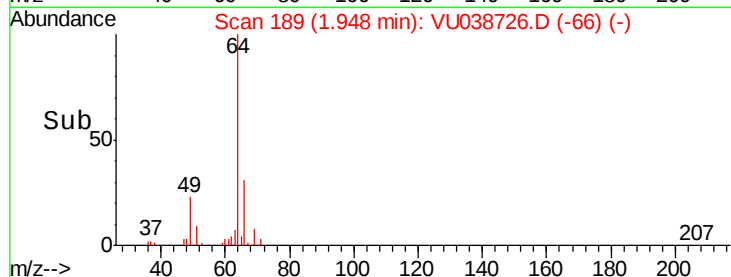
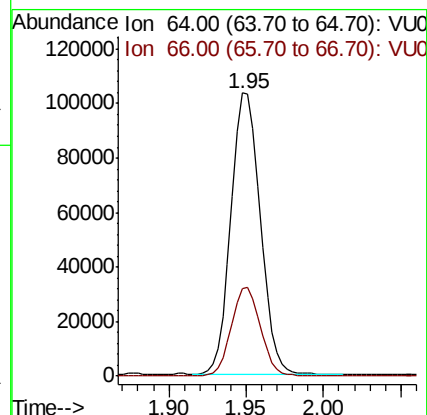
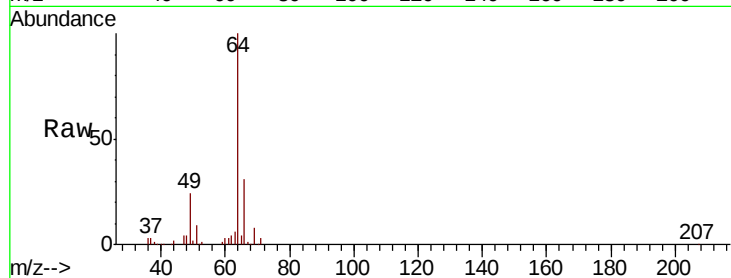




#8
Chloroethane
Concen: 54.123 ug/L
RT: 1.95 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

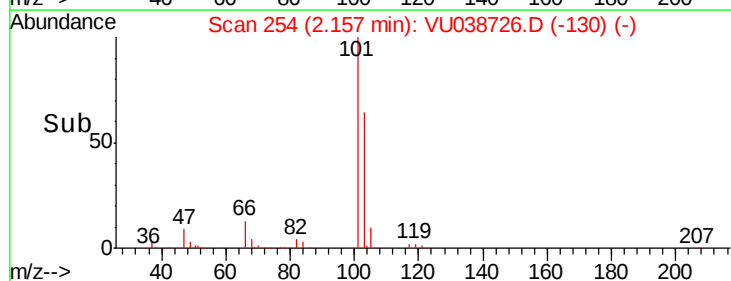
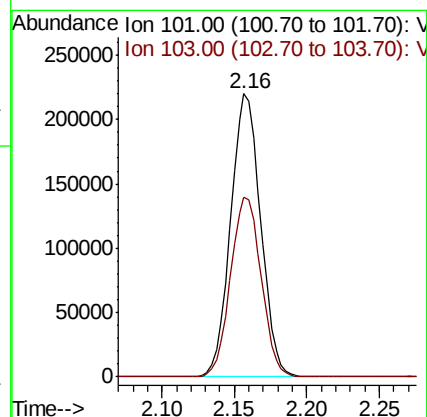
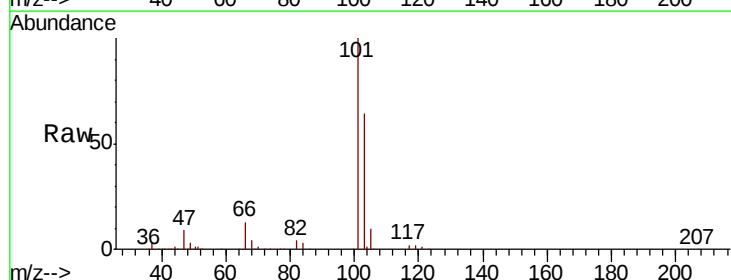
Instrument :
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VSTD05045

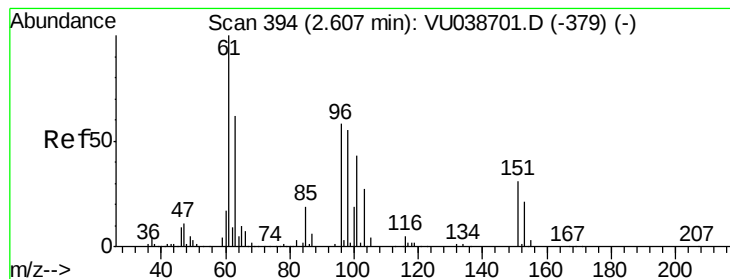
Tot Ion: 64 Resp: 135915
Ion Ratio Lower Upper
64 100
66 30.9 21.6 40.2



#9
Trichlorofluoromethane
Concen: 53.342 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

Tgt Ion: 101 Resp: 315342
Ion Ratio Lower Upper
101 100
103 64.9 51.7 77.5





#10

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

Concen: 54.557 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

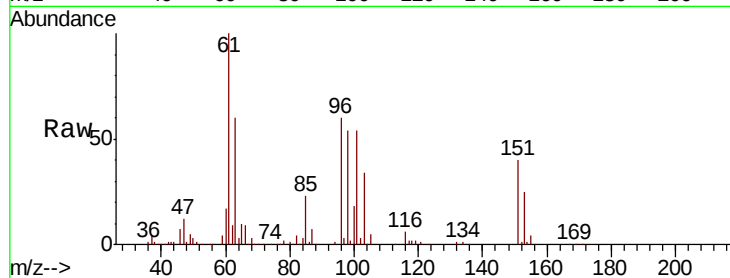
Tot Ion:101 Resp: 187992

Ion Ratio Lower Upper

101 100

85 43.3 35.1 52.7

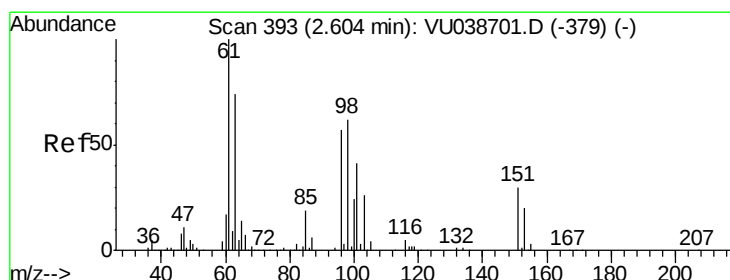
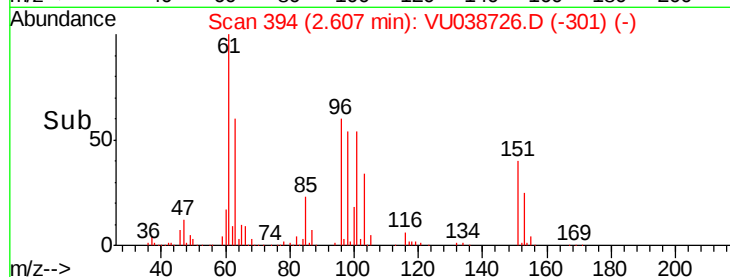
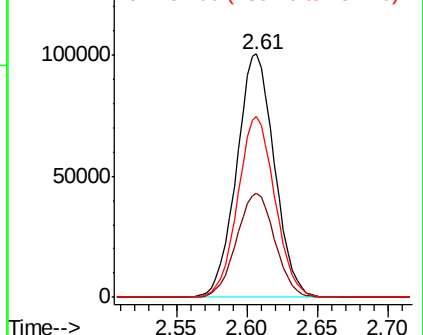
151 73.2 57.4 86.0



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: 53.731 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

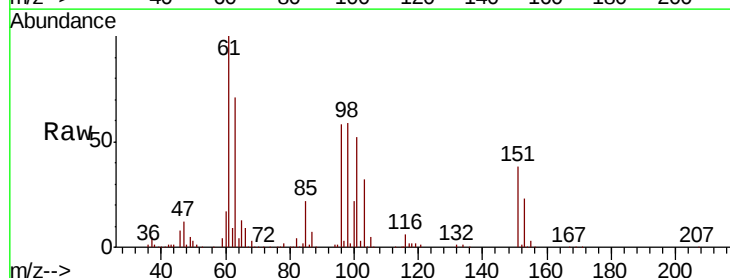
Tgt Ion: 96 Resp: 182481

Ion Ratio Lower Upper

96 100

61 171.9 120.0 223.0

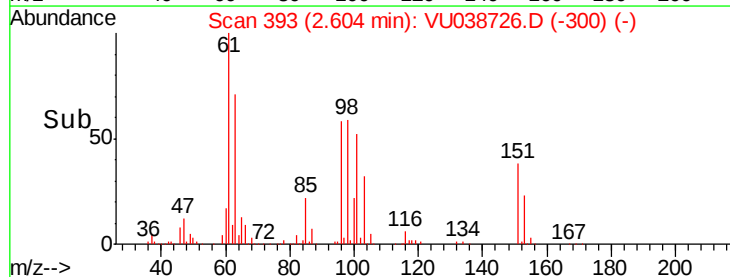
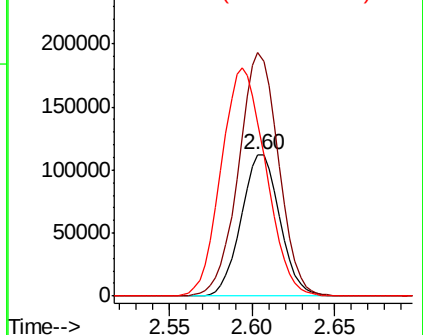
63 121.9 75.8 140.8

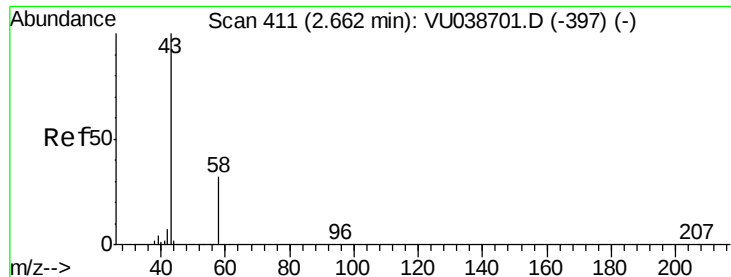


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 121.591 ug/L

RT: 2.65 min Scan# 407

Delta R.T. -0.01 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

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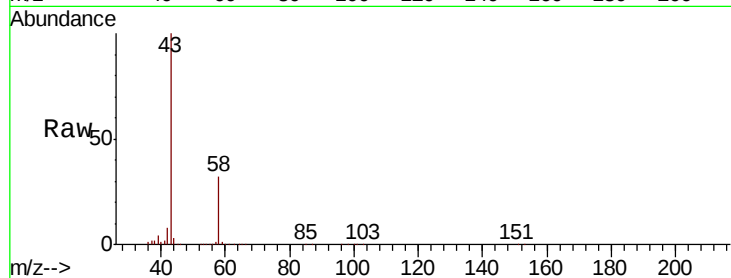
VSTD05045

Tot Ion: 43 Resp: 285753

Ion Ratio Lower Upper

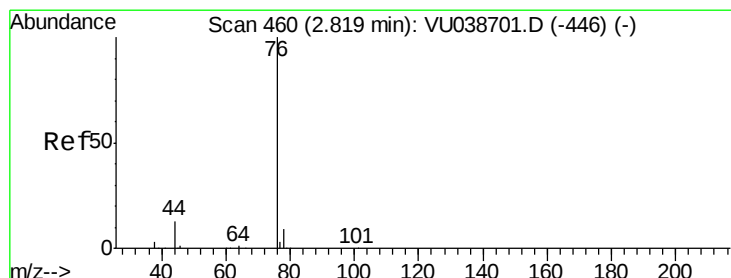
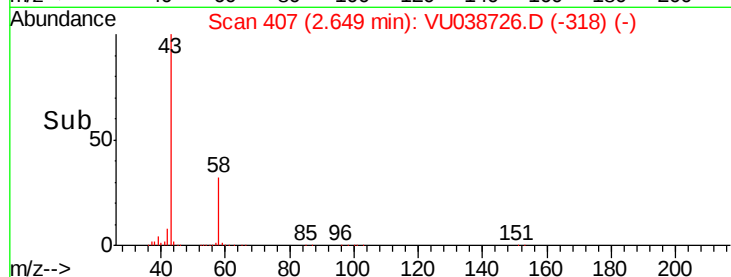
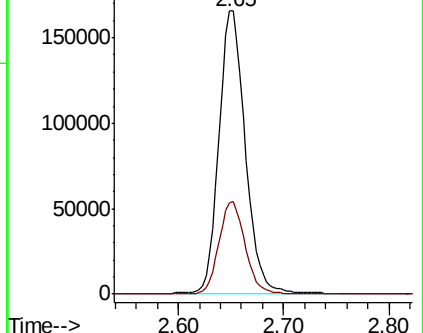
43 100

58 32.7 0.0 67.6



Abundance Ion 43.00 (42.70 to 43.70): VU038726.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU038726.D (-397) (-)



#14

Carbon disulfide

Concen: 52.792 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU038726.D

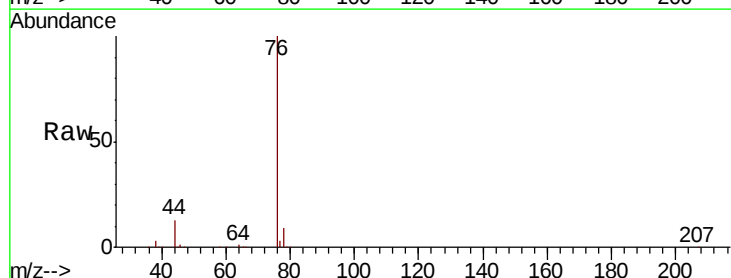
Acq: 09 Jun 2020 15:50

Tgt Ion: 76 Resp: 580574

Ion Ratio Lower Upper

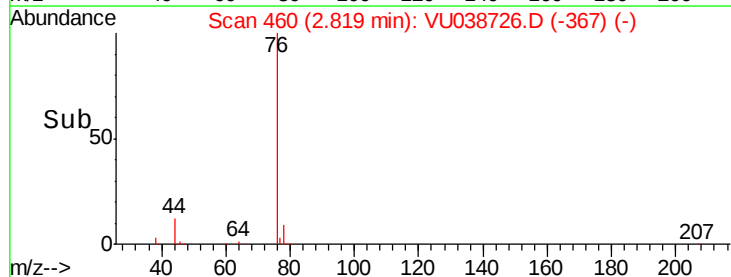
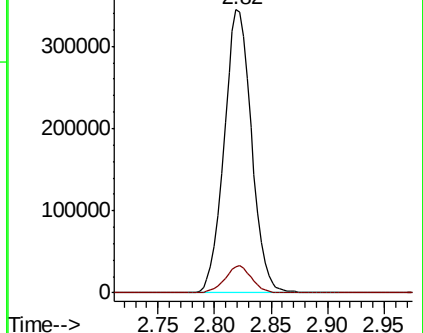
76 100

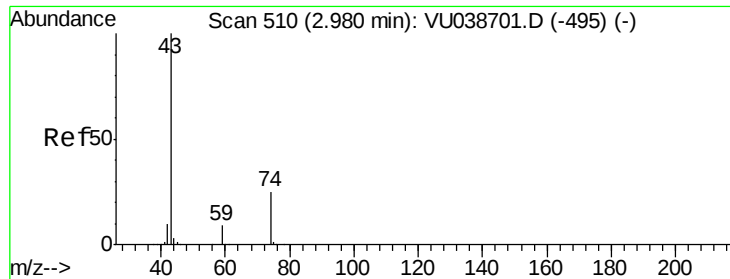
78 9.4 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU038726.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU038726.D (-367) (-)

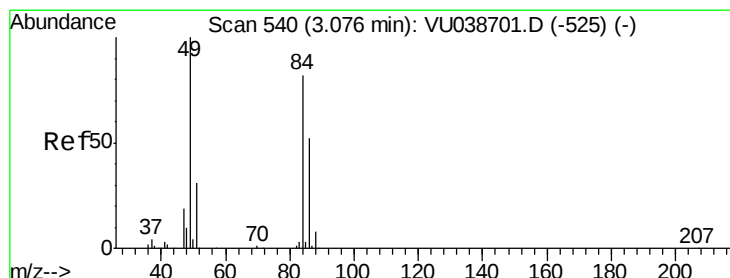
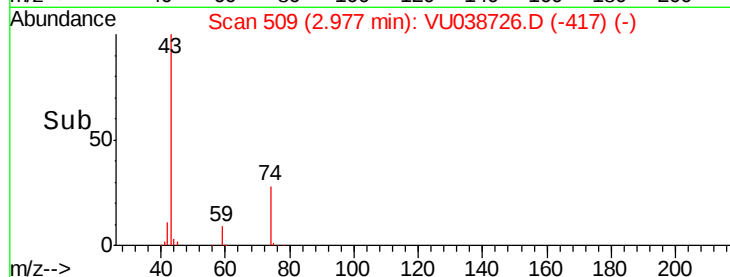
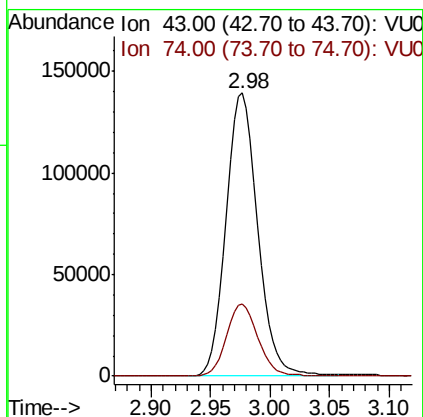
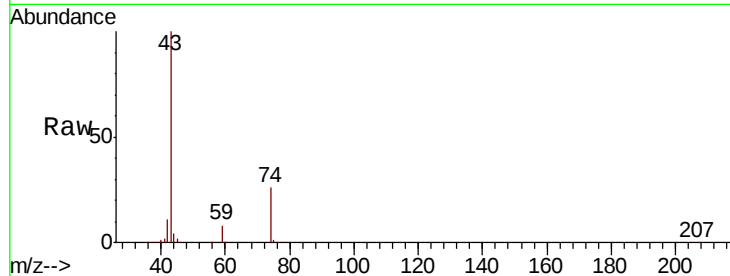




#15
Methvl Acetate
Concen: 52.243 ug/L
RT: 2.98 min Scan# 509
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

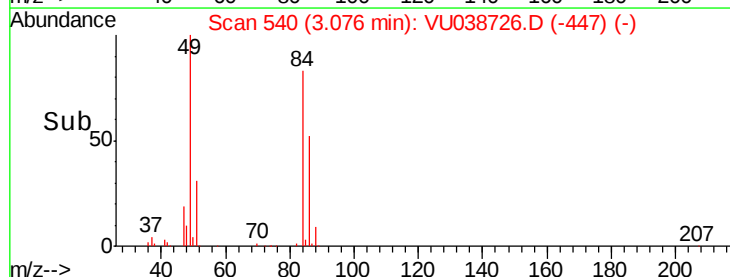
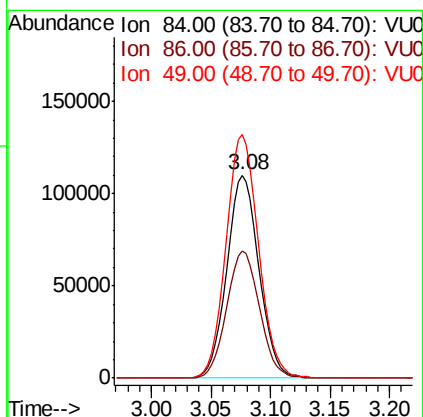
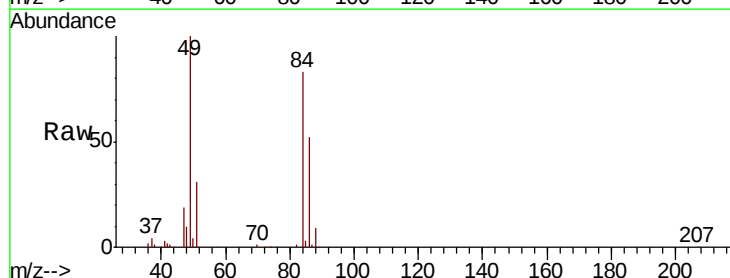
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

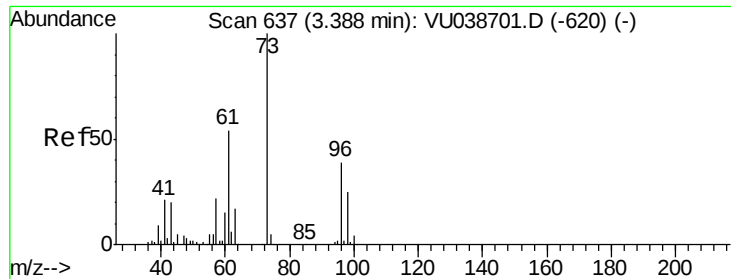
Tot Ion: 43 Resp: 256573
Ion Ratio Lower Upper
43 100
74 25.3 19.7 29.5



#16
Methylene chloride
Concen: 51.069 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

Tgt Ion: 84 Resp: 205924
Ion Ratio Lower Upper
84 100
86 62.9 44.7 83.1
49 120.1 84.5 156.9





#17

trans-1,2-Dichloroethene

Concen: 52.546 ug/L

RT: 3.38 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

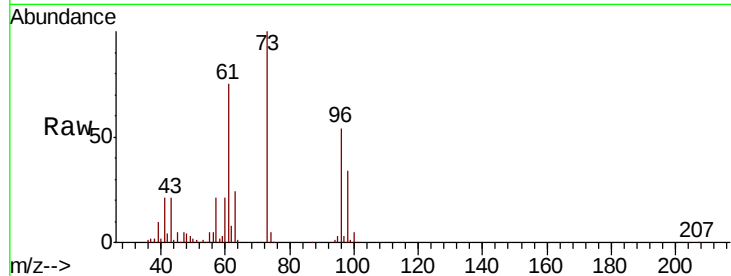
Tot Ion: 96 Resp: 195283

Ion Ratio Lower Upper

96 100

61 139.2 98.2 182.4

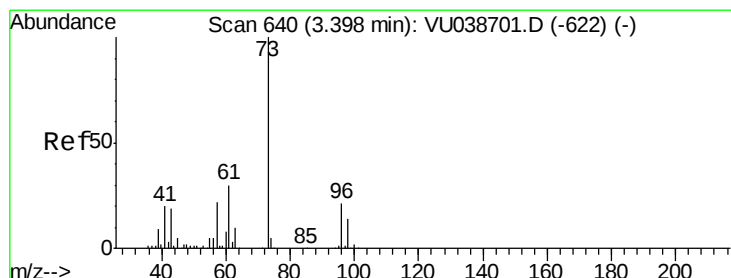
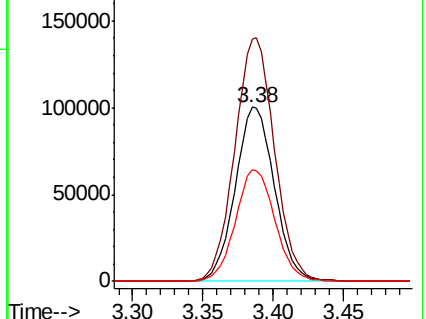
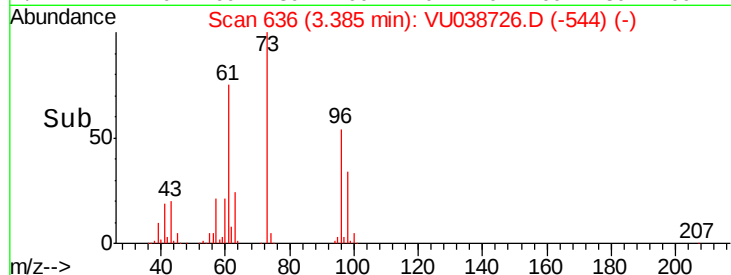
98 64.0 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU038726.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU038726.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU038726.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 52.199 ug/L

RT: 3.40 min Scan# 640

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

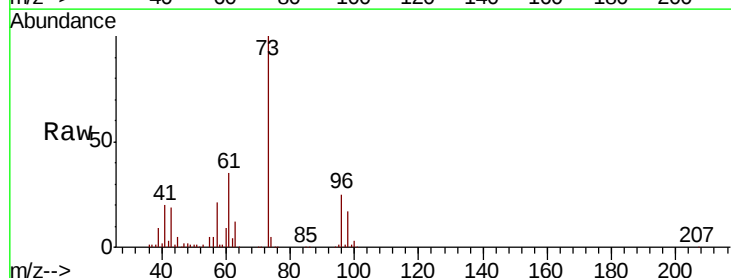
Tgt Ion: 73 Resp: 627232

Ion Ratio Lower Upper

73 100

43 19.6 15.6 23.4

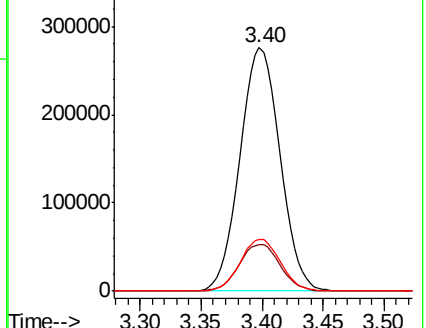
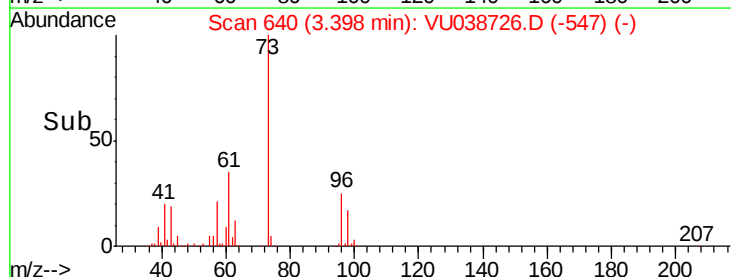
57 21.4 17.2 25.8

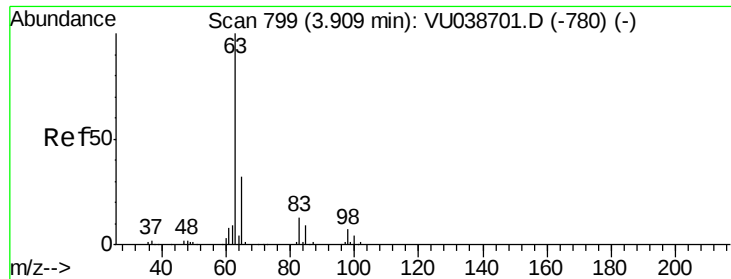


Abundance Ion 73.00 (72.70 to 73.70): VU038726.D (-547) (-)

Ion 43.00 (42.70 to 43.70): VU038726.D (-547) (-)

Ion 57.00 (56.70 to 57.70): VU038726.D (-547) (-)





#19

1,1-Dichloroethane

Concen: 51.923 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

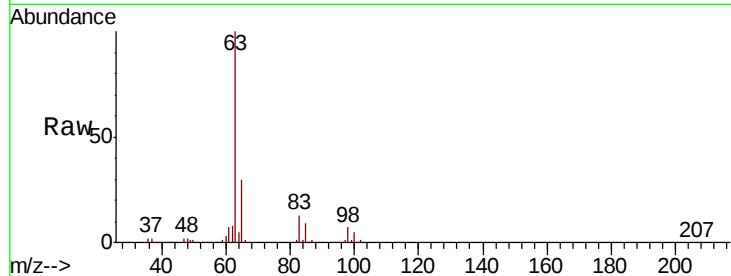
Tot Ion: 63 Resp: 365646

Ion Ratio Lower Upper

63 100

65 30.4 23.0 42.8

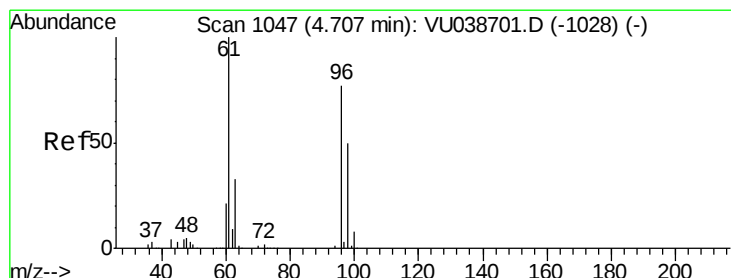
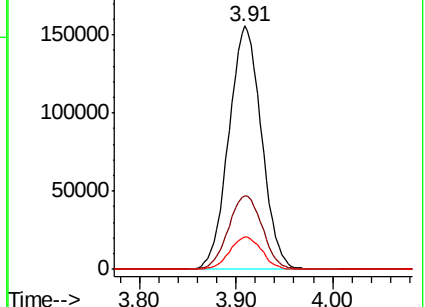
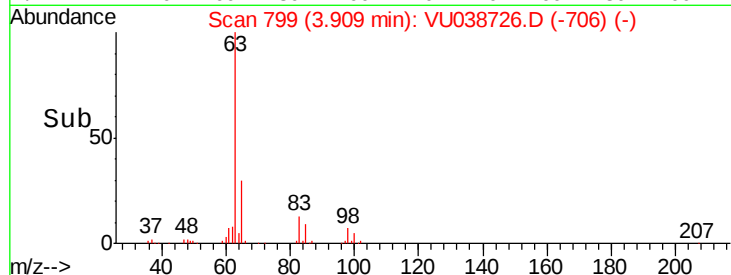
83 13.5 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU038726.D (-706) (-)

Ion 65.00 (64.70 to 65.70): VU038726.D (-706) (-)

Ion 83.00 (82.70 to 83.70): VU038726.D (-706) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.838 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

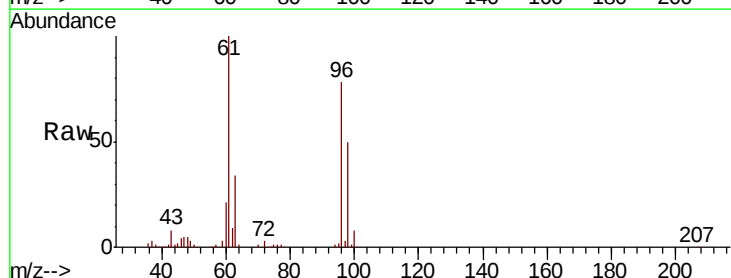
Tgt Ion: 96 Resp: 212960

Ion Ratio Lower Upper

96 100

61 128.4 89.5 166.1

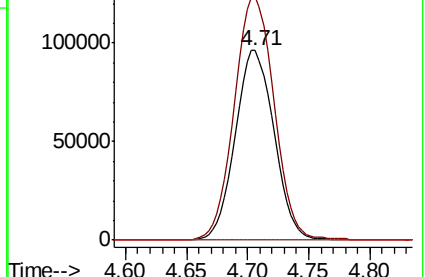
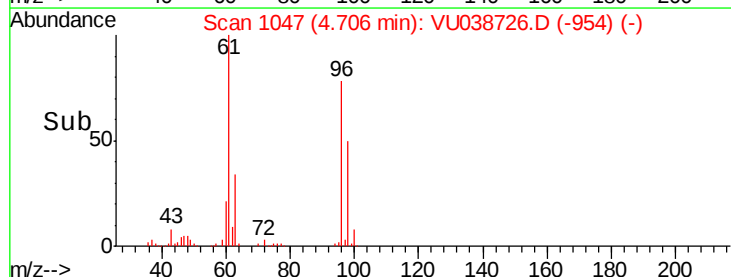
68 0.0 0.0 0.0

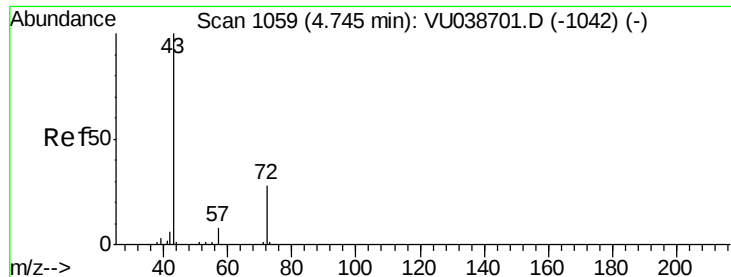


Abundance Ion 96.00 (95.70 to 96.70): VU038726.D (-954) (-)

Ion 61.00 (60.70 to 61.70): VU038726.D (-954) (-)

Ion 68.00 (67.70 to 68.70): VU038726.D (-954) (-)





#22

2-Butanone

Concen: 112.335 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. -0.01 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

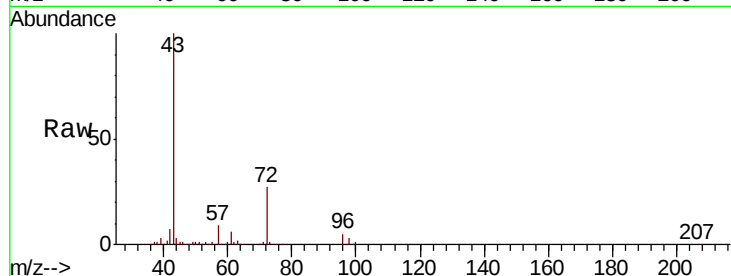
VSTD05045

Tot Ion: 43 Resp: 404862

Ion Ratio Lower Upper

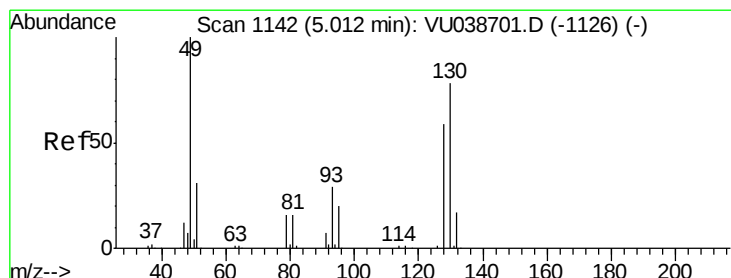
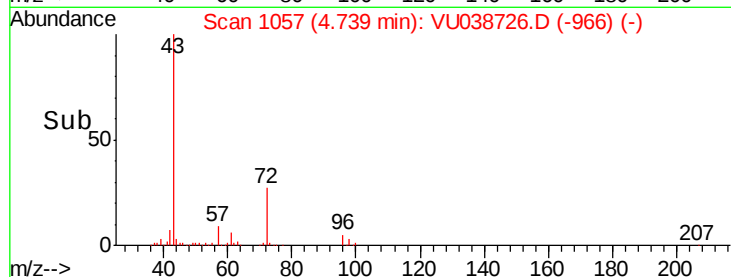
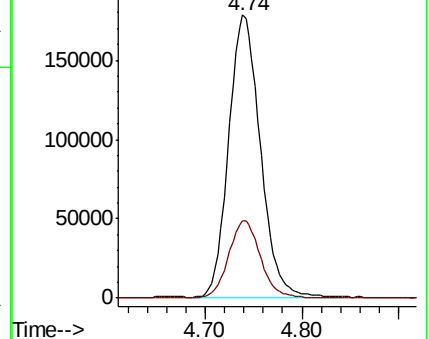
43 100

72 27.9 14.1 42.3



Abundance Ion 43.00 (42.70 to 43.70): VU038726.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU038726.D (-966) (-)



#23

Bromochloromethane

Concen: 51.790 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Tgt Ion:128 Resp: 105384

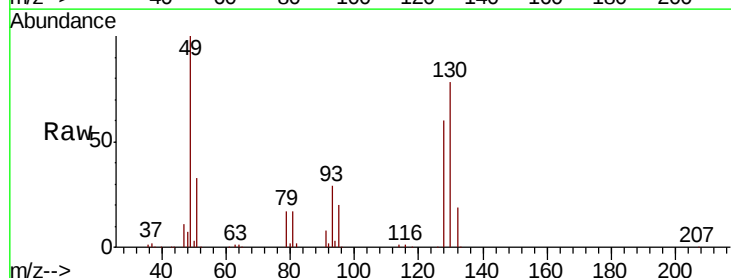
Ion Ratio Lower Upper

128 100

49 167.7 118.6 220.2

130 130.6 92.5 171.7

51 55.2 43.1 64.7

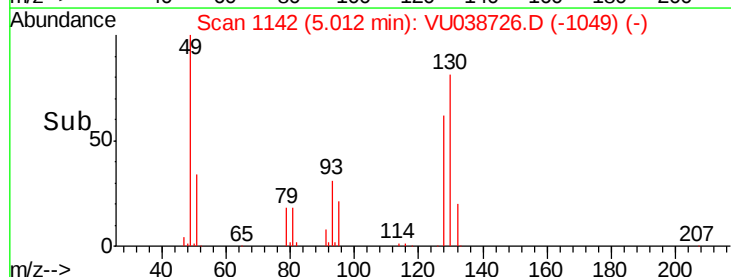
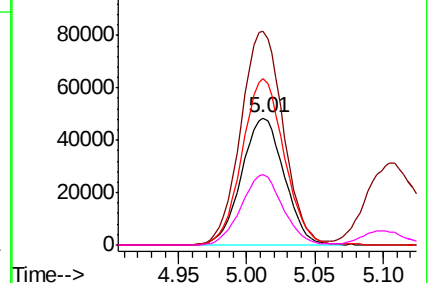


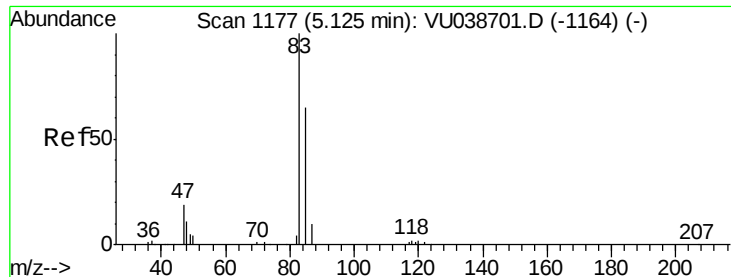
Abundance Ion 128.00 (127.70 to 128.70): VU038726.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU038726.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU038726.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU038726.D (-1049) (-)

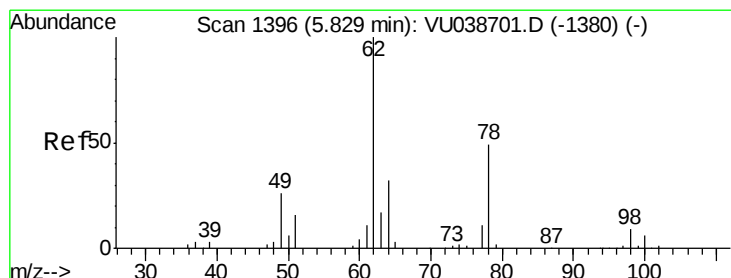
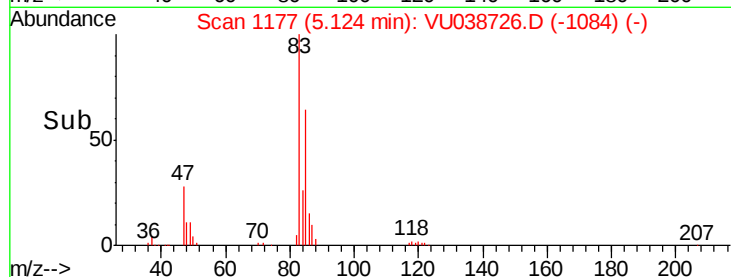
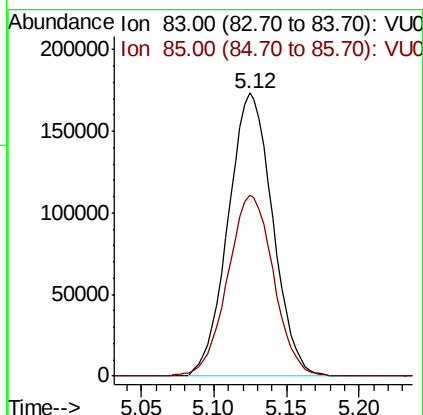
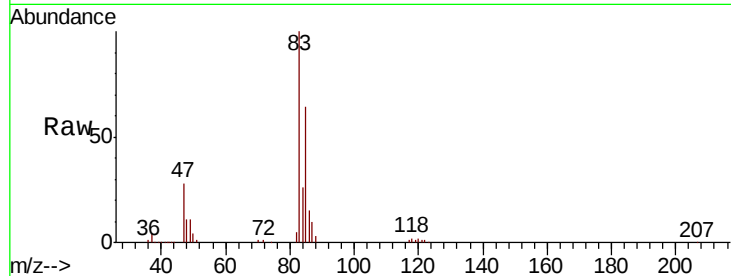




#25
Chloroform
Concen: 52.448 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

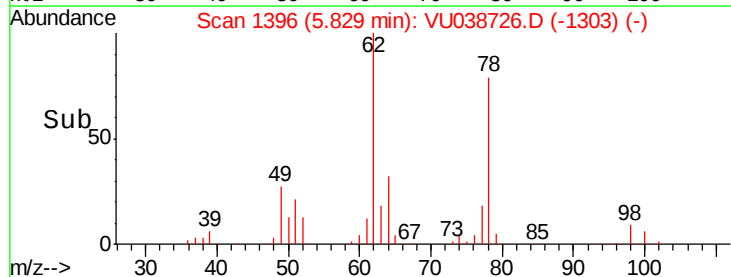
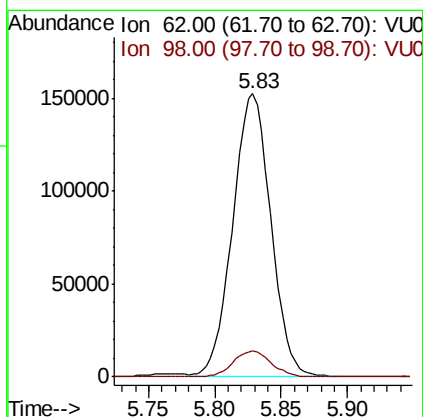
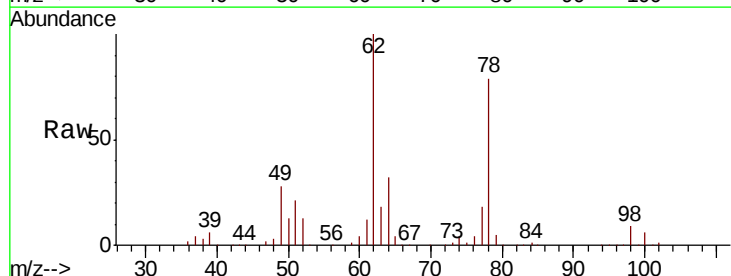
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

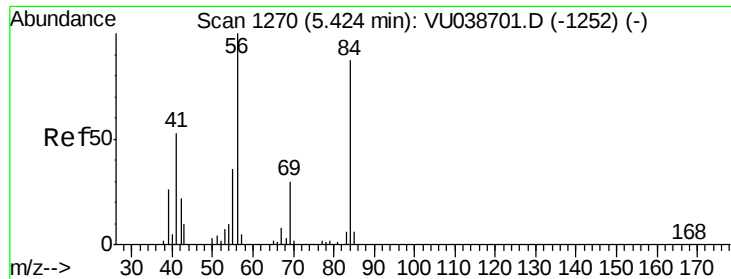
Tot Ion: 83 Resp: 369638
Ion Ratio Lower Upper
83 100
85 63.8 47.0 87.4



#27
1,2-Dichloroethane
Concen: 52.019 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

Tgt Ion: 62 Resp: 303284
Ion Ratio Lower Upper
62 100
98 9.2 7.8 11.6

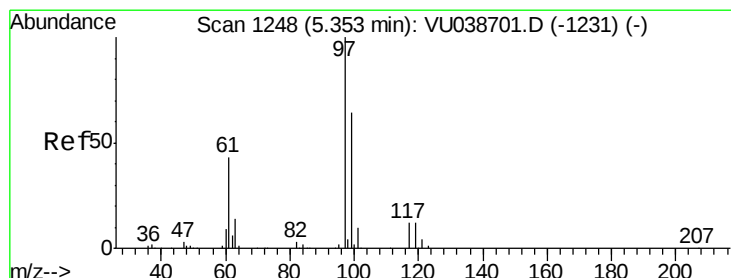
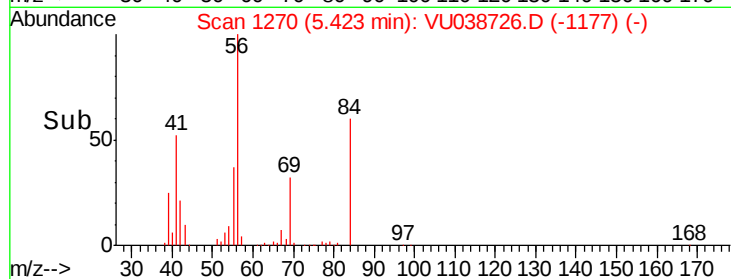
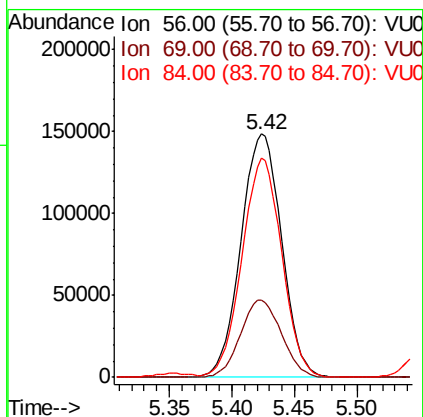
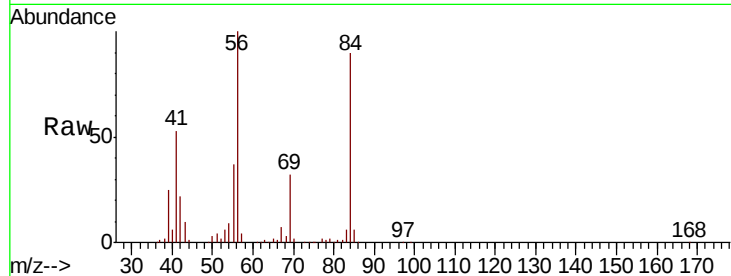




#29
Cyclohexane
Concen: 54.970 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

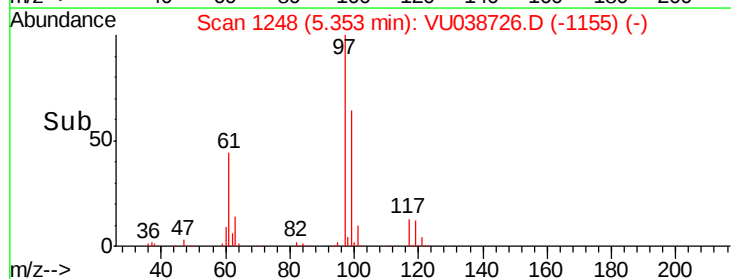
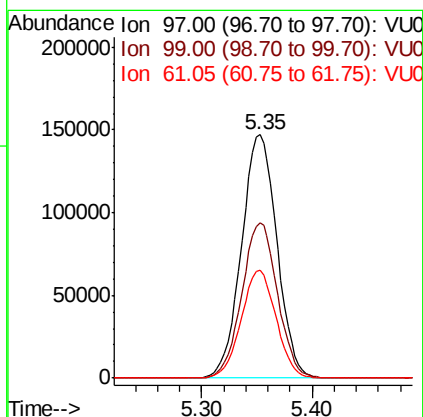
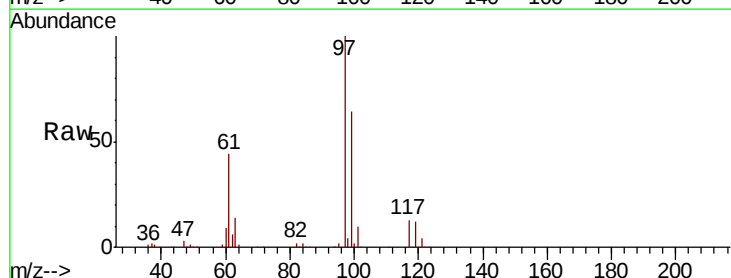
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

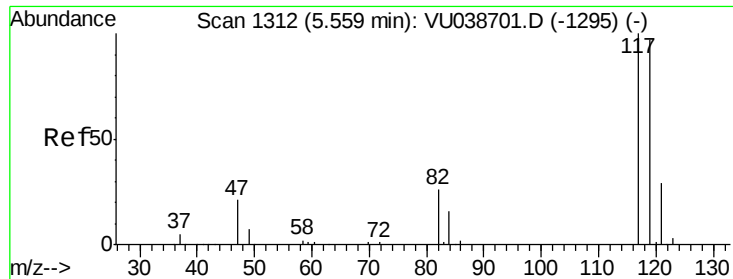
Tot Ion: 56 Resp: 334261
Ion Ratio Lower Upper
56 100
69 31.9 25.1 37.7
84 88.3 70.5 105.7



#30
1,1,1-Trichloroethane
Concen: 52.392 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

Tgt Ion: 97 Resp: 327191
Ion Ratio Lower Upper
97 100
99 64.2 51.6 77.4
61 43.8 35.2 52.8





#31

Carbon tetrachloride

Concen: 53.122 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

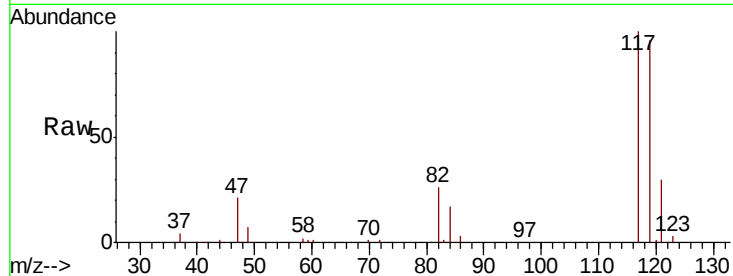
VSTD05045

Tot Ion:117 Resp: 274634

Ion Ratio Lower Upper

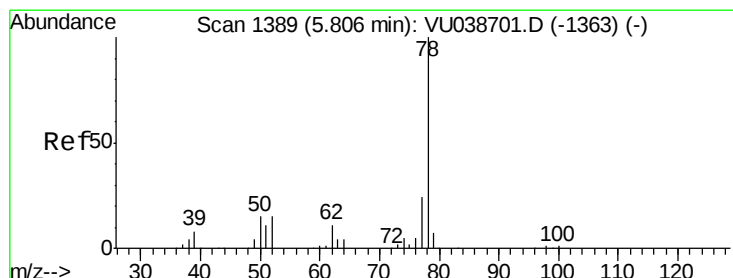
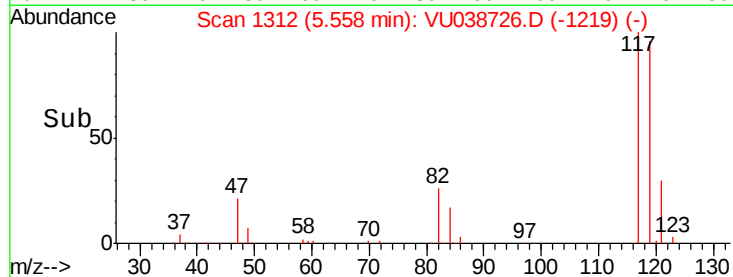
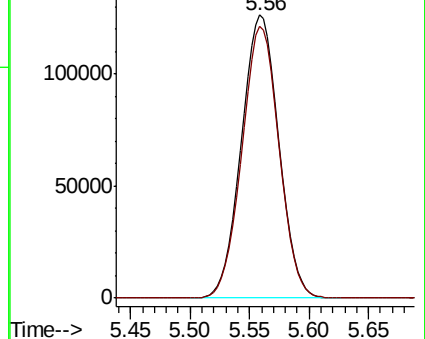
117 100

119 95.5 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.944 ug/L

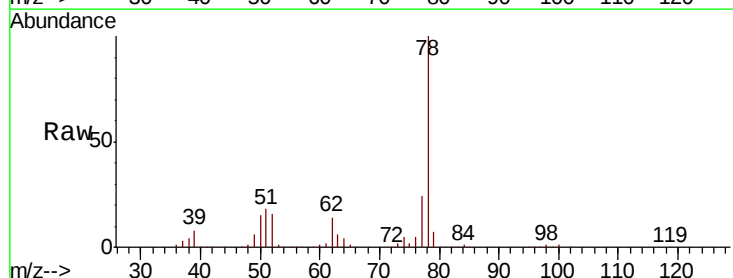
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

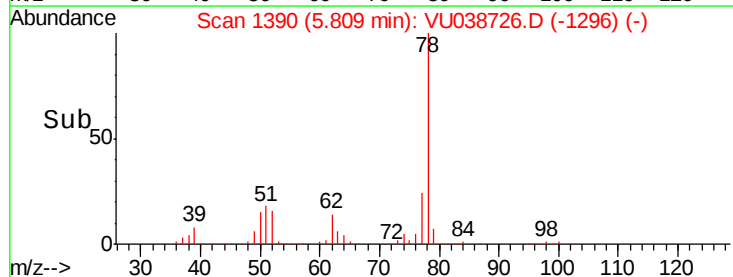
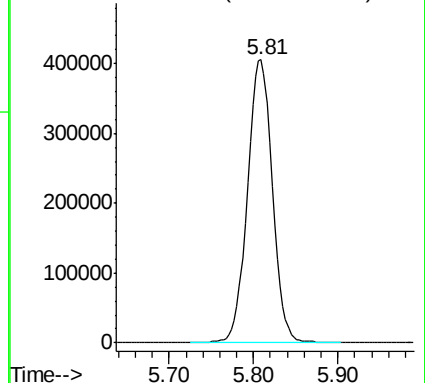
Lab File: VU038726.D

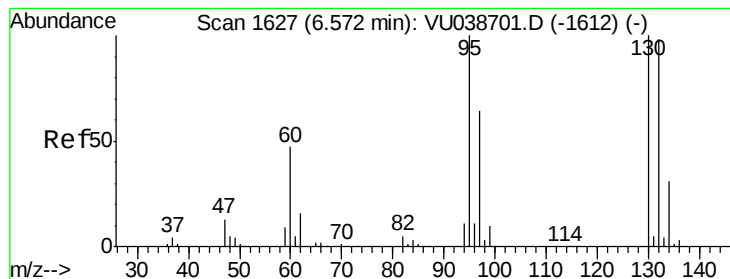
Acq: 09 Jun 2020 15:50

Tgt Ion: 78 Resp: 835619



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 53.502 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

Tot Ion: 95 Resp: 214764

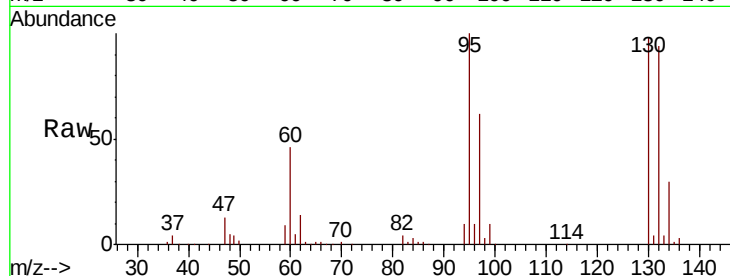
Ion Ratio Lower Upper

95 100

97 62.1 44.4 82.4

132 94.3 64.9 120.5

130 97.9 68.6 127.4

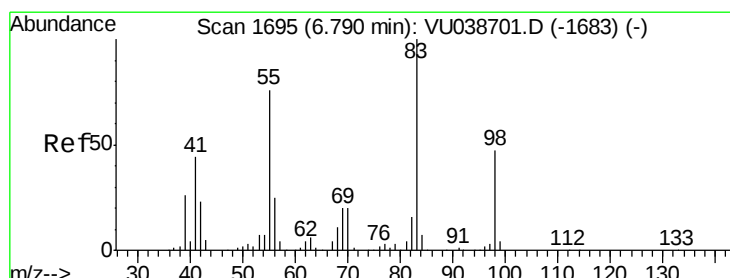
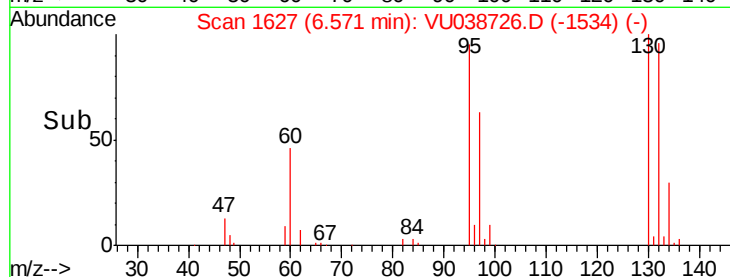
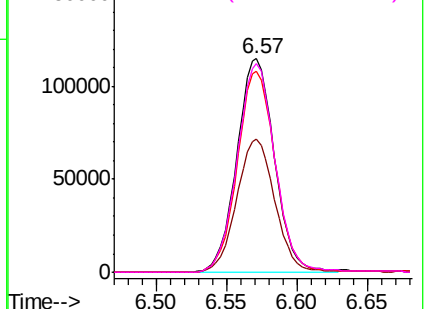


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 54.401 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

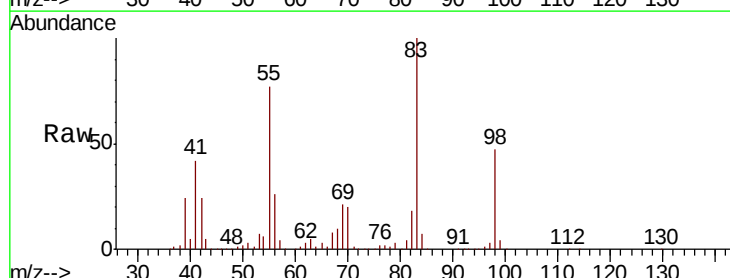
Tgt Ion: 83 Resp: 329331

Ion Ratio Lower Upper

83 100

55 78.6 63.2 94.8

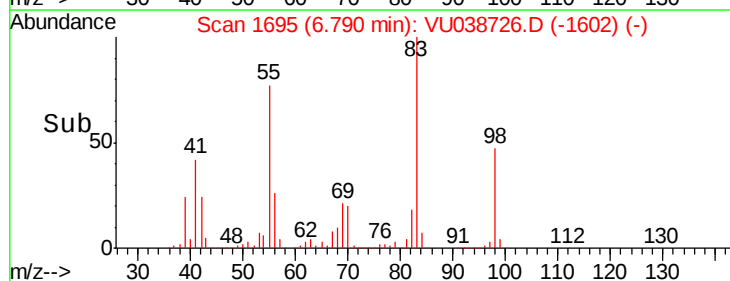
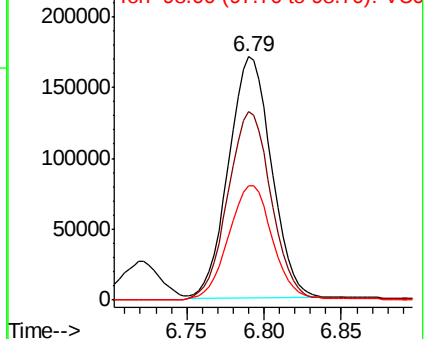
98 48.5 38.4 57.6

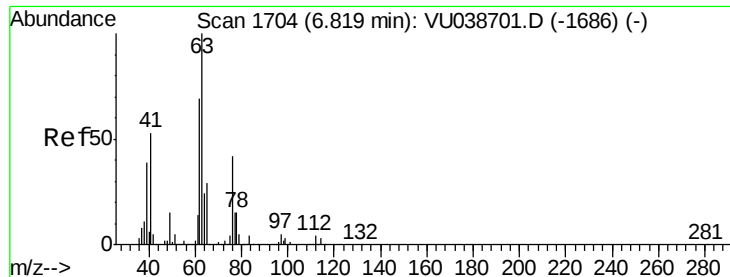


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 51.696 ug/L

RT: 6.82 min Scan# 1704

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

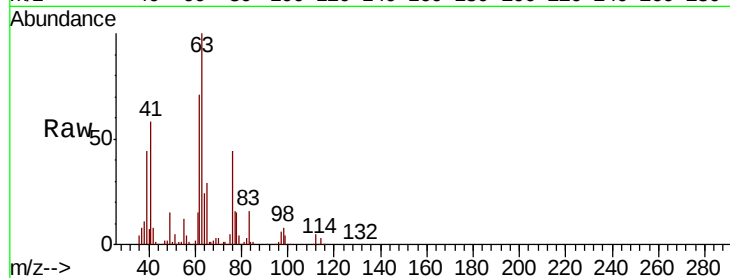
VSTD05045

Tot Ion: 63 Resp: 212616

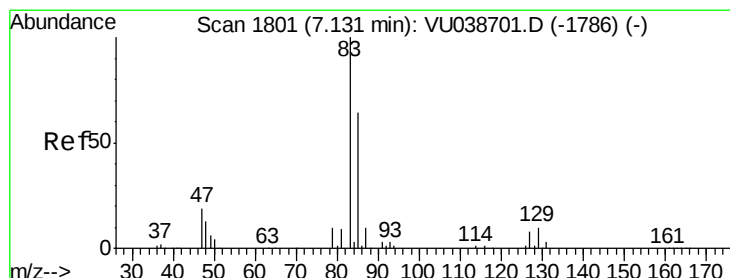
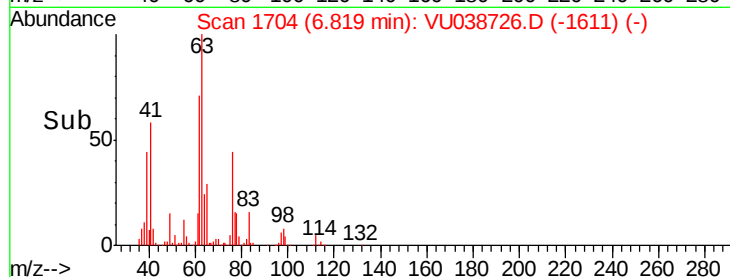
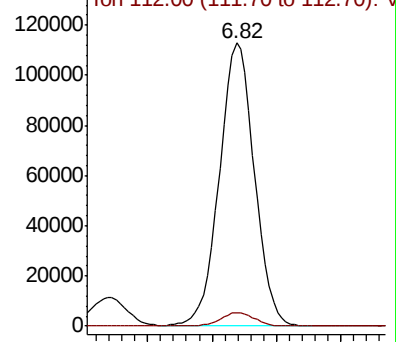
Ion Ratio Lower Upper

63 100

112 4.8 3.4 5.2



Abundance Ion 63.00 (62.70 to 63.70): VU038701.D (-1686) (-)



#38

Bromodichloromethane

Concen: 52.317 ug/L

RT: 7.13 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

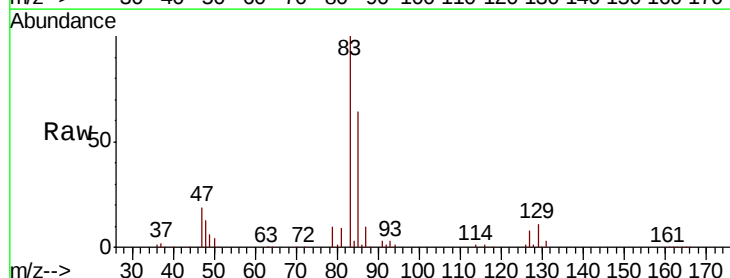
Tgt Ion: 83 Resp: 275838

Ion Ratio Lower Upper

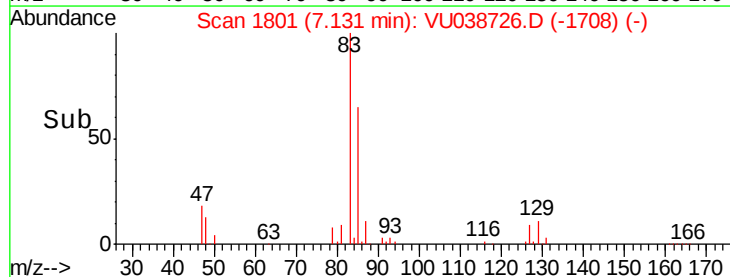
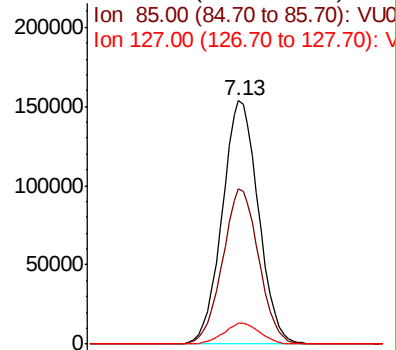
83 100

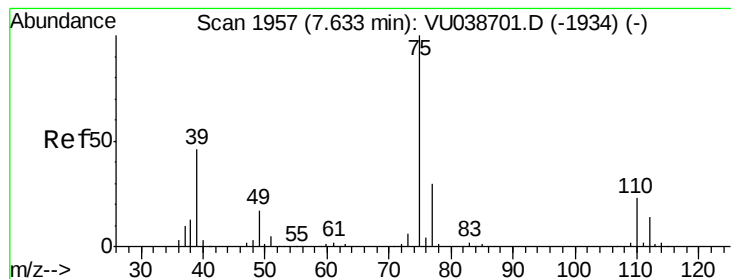
85 63.5 45.1 83.9

127 8.3 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU038701.D (-1786) (-)



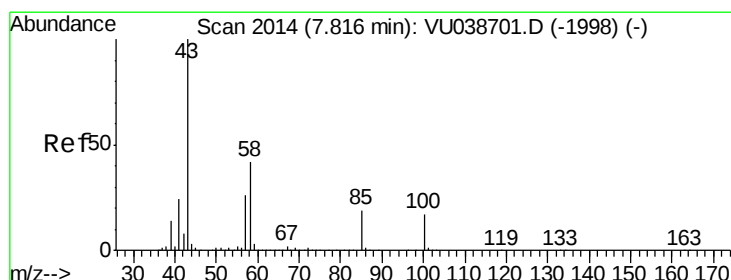
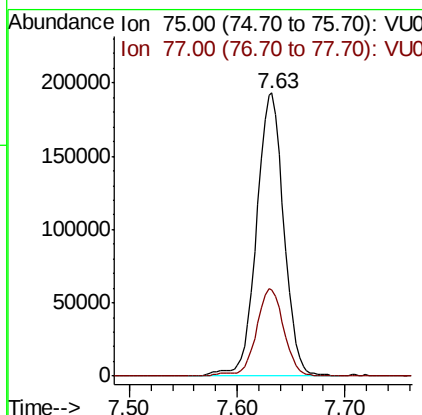
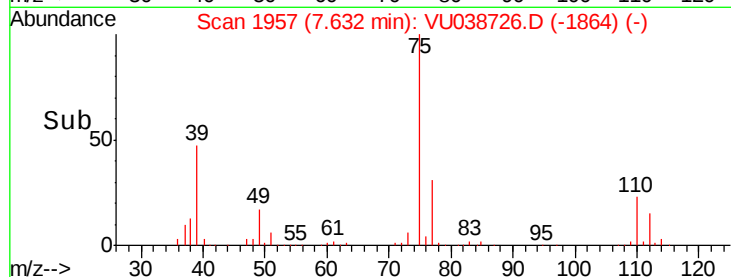
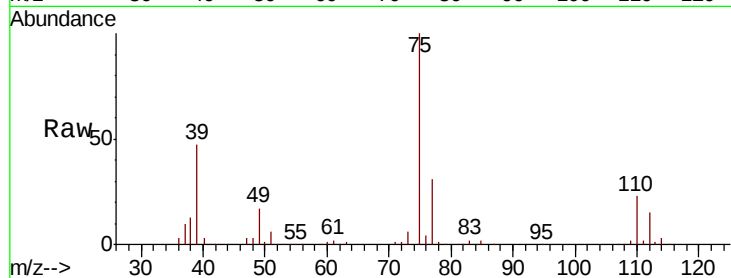


#39

cis-1,3-Dichloropropene
 Concen: 53.350 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU038726.D
 Acq: 09 Jun 2020 15:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

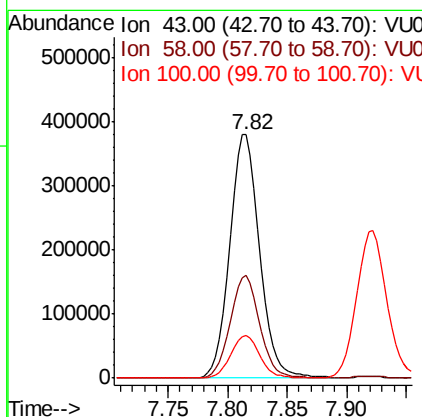
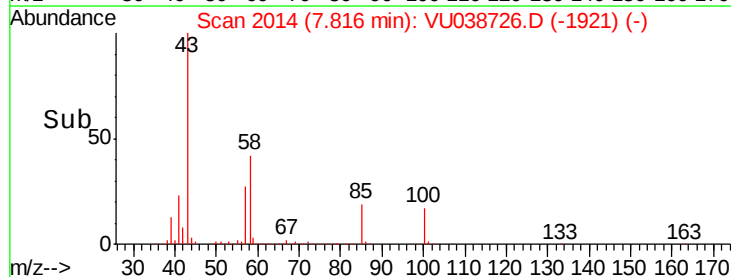
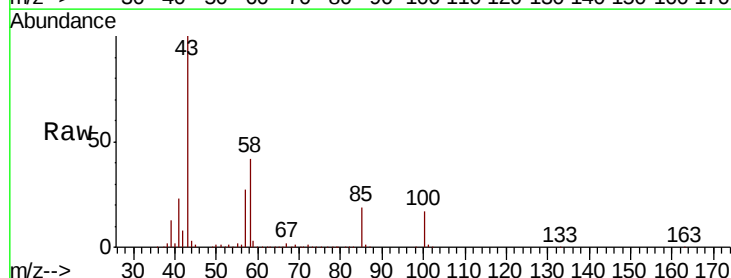
Tot Ion: 75 Resp: 338396
 Ion Ratio Lower Upper
 75 100
 77 30.6 22.2 41.2

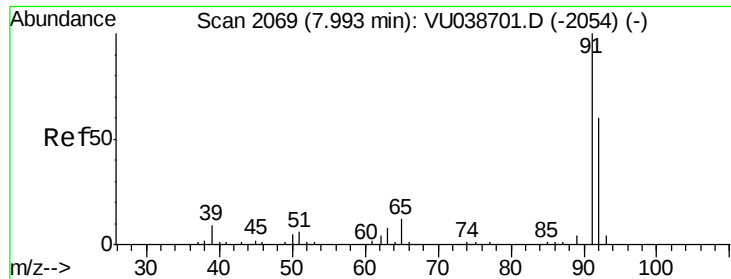


#40

4-Methyl-2-pentanone
 Concen: 102.897 ug/L
 RT: 7.82 min Scan# 2014
 Delta R.T. -0.00 min
 Lab File: VU038726.D
 Acq: 09 Jun 2020 15:50

Tgt Ion: 43 Resp: 661601
 Ion Ratio Lower Upper
 43 100
 58 41.8 33.0 49.4
 100 17.1 13.4 20.0





#42

Toluene

Concen: 54.013 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

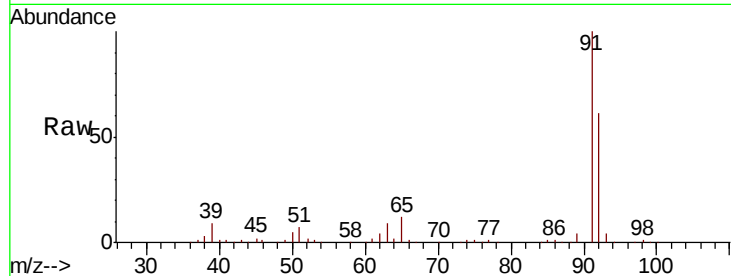
VSTD05045

Tot Ion: 91 Resp: 891359

Ion Ratio Lower Upper

91 100

92 60.7 42.2 78.4



Abundance Ion 91.00 (90.70 to 91.70): VU038701.D (-2054) (-)

Ion 92.00 (91.70 to 92.70): VU038701.D (-2054) (-)

7.99

500000

400000

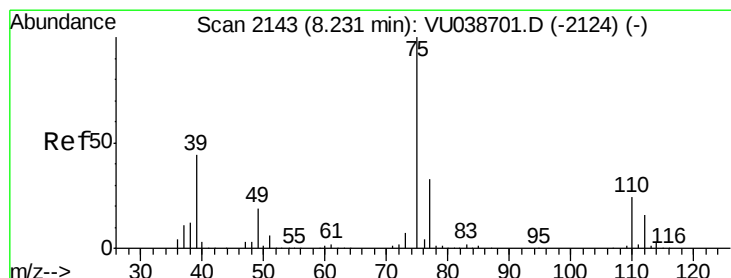
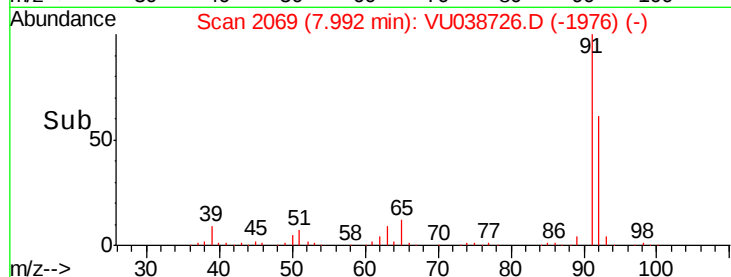
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 53.002 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU038726.D

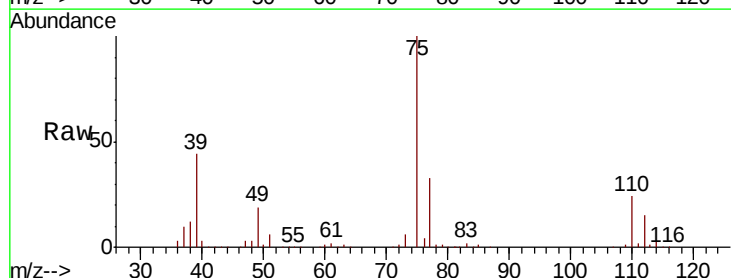
Acq: 09 Jun 2020 15:50

Tgt Ion: 75 Resp: 322014

Ion Ratio Lower Upper

75 100

77 33.0 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VU038701.D (-2124) (-)

Ion 77.00 (76.70 to 77.70): VU038701.D (-2124) (-)

8.23

200000

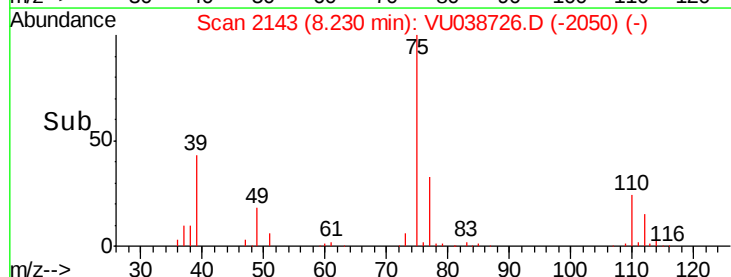
150000

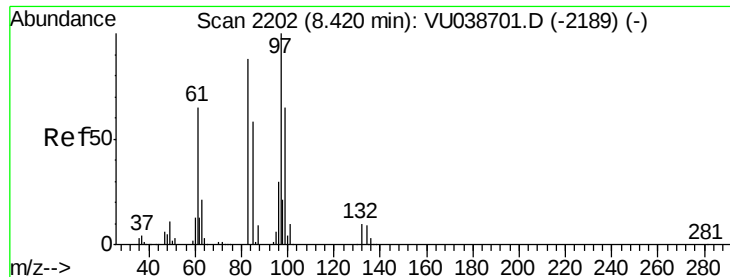
100000

50000

0

Time-->

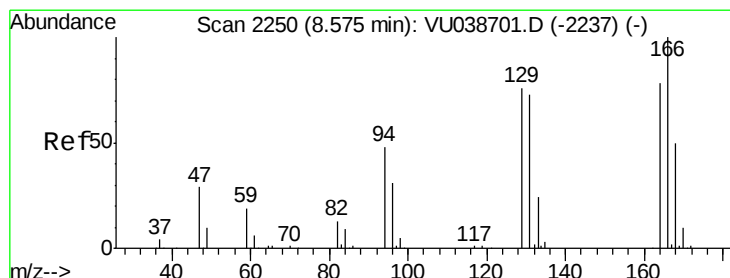
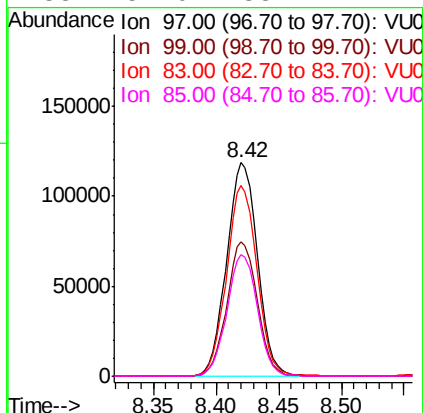
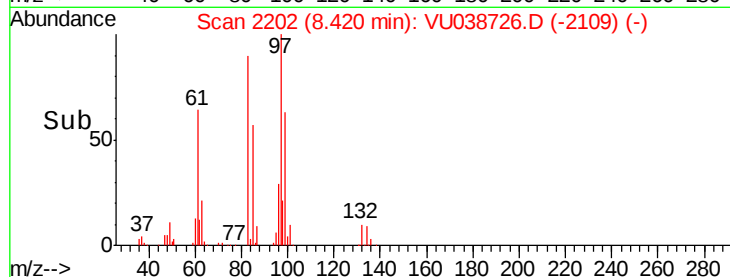
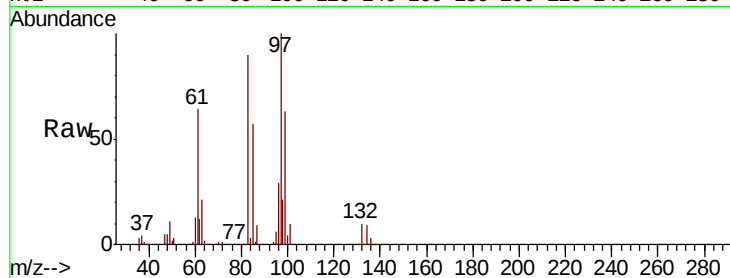




#45
 1,1,2-Trichloroethane
 Concen: 51.188 ug/L
 RT: 8.42 min Scan# 2202
 Delta R.T. -0.00 min
 Lab File: VU038726.D
 Acq: 09 Jun 2020 15:50

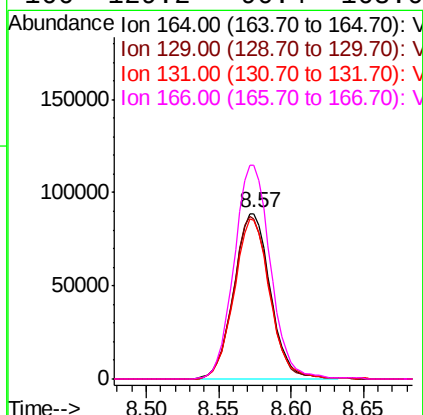
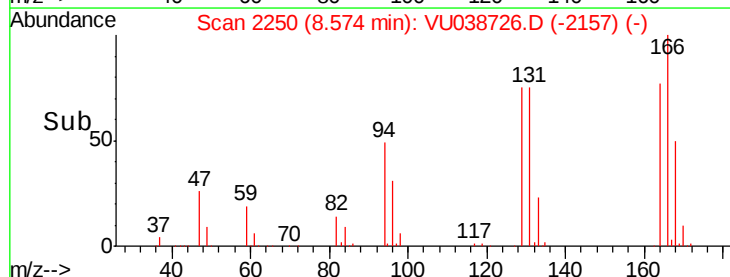
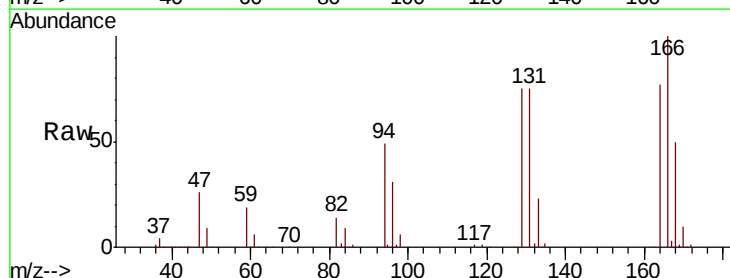
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

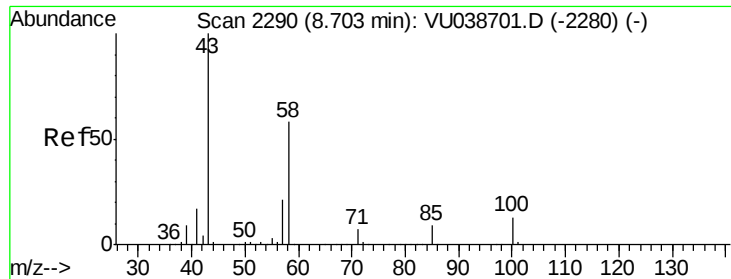
Tot Ion:	97	Resp:	202631
Ion	Ratio	Lower	Upper
97	100		
99	63.2	43.6	81.0
83	89.6	60.0	111.4
85	57.0	38.4	71.2



#46
 Tetrachloroethene
 Concen: 53.506 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU038726.D
 Acq: 09 Jun 2020 15:50

Tgt Ion:	164	Resp:	154953
Ion	Ratio	Lower	Upper
164	100		
129	96.6	67.2	124.8
131	96.4	65.5	121.6
166	129.2	90.4	168.0

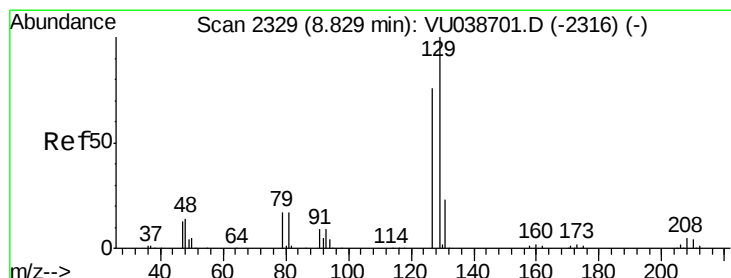
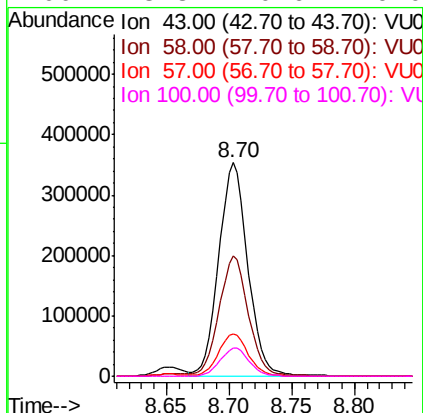
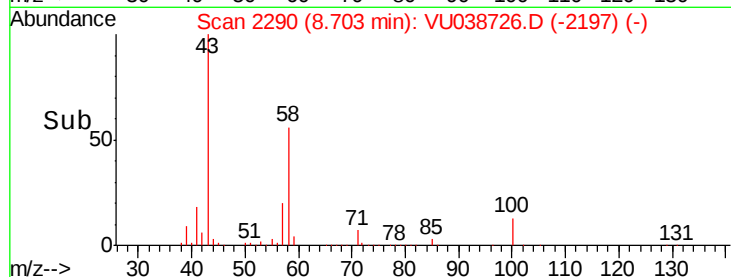
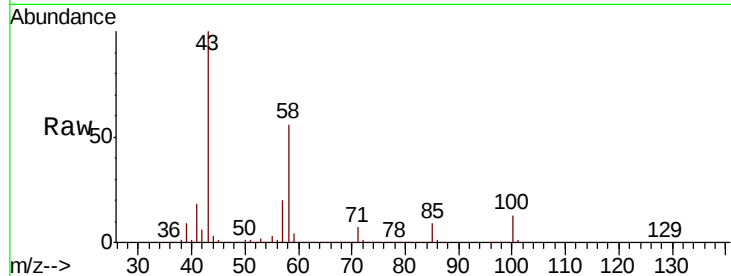




#48
2-Hexanone
Concen: 107.017 ug/L
RT: 8.70 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

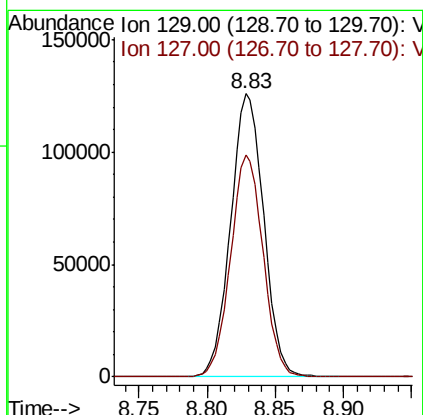
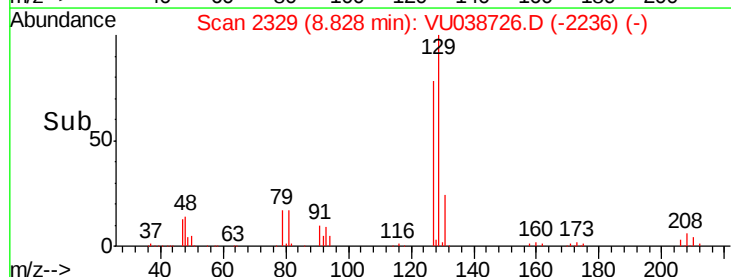
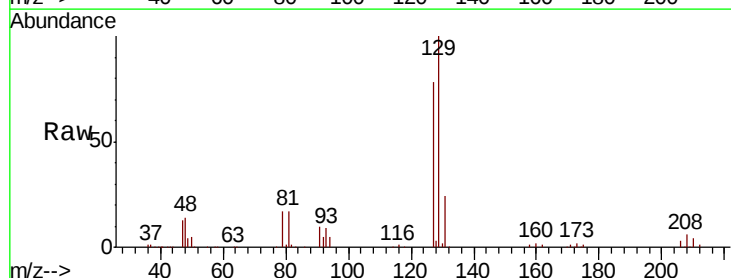
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

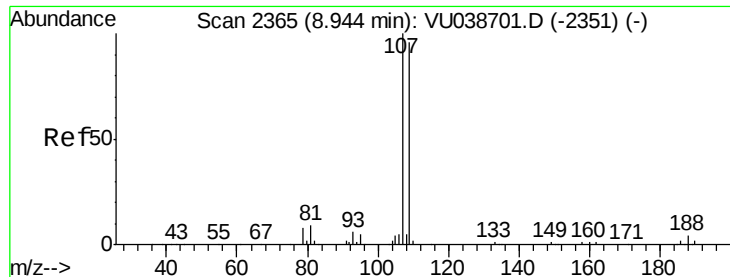
Tot Ion: 43 Resp: 568804
Ion Ratio Lower Upper
43 100
58 56.6 46.2 69.4
57 20.4 16.6 24.8
100 13.3 10.6 16.0



#49
Dibromochloromethane
Concen: 52.242 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VU038726.D
Acq: 09 Jun 2020 15:50

Tgt Ion: 129 Resp: 212388
Ion Ratio Lower Upper
129 100
127 78.3 55.8 103.6





#50

1,2-Dibromoethane

Concen: 51.451 ug/L

RT: 8.94 min Scan# 2365

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

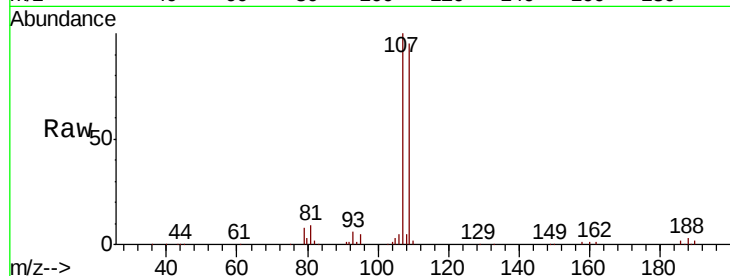
Tot Ion:107 Resp: 218915

Ion Ratio Lower Upper

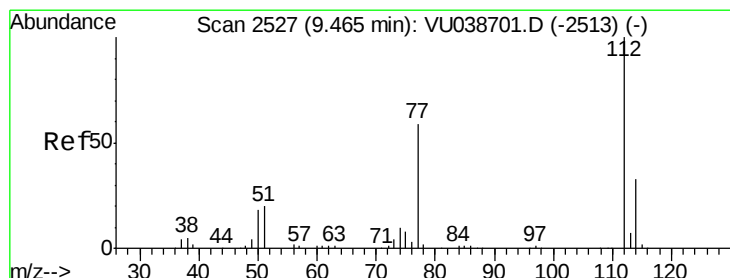
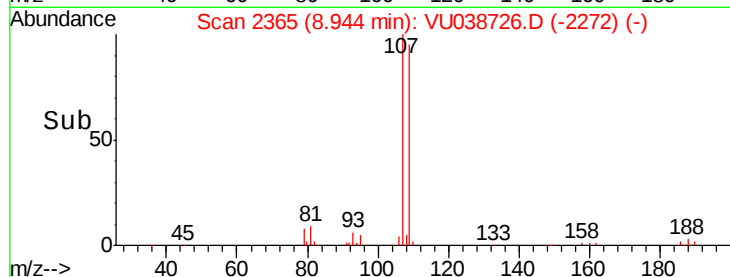
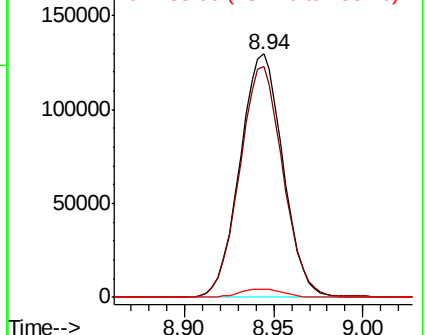
107 100

109 94.6 65.9 122.5

188 3.4 2.9 4.3



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



#51

Chlorobenzene

Concen: 52.949 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

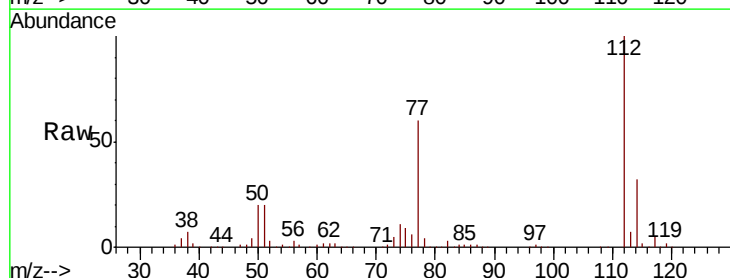
Tgt Ion:112 Resp: 561365

Ion Ratio Lower Upper

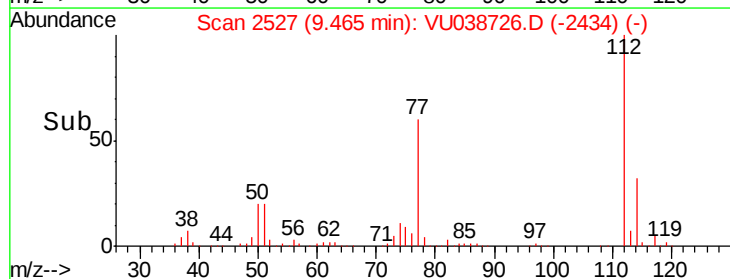
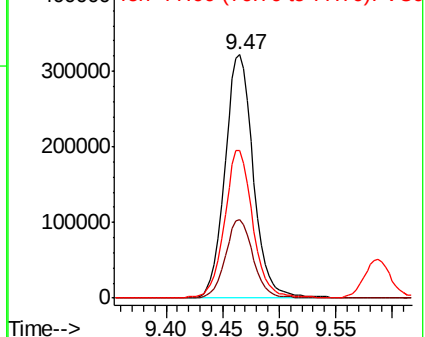
112 100

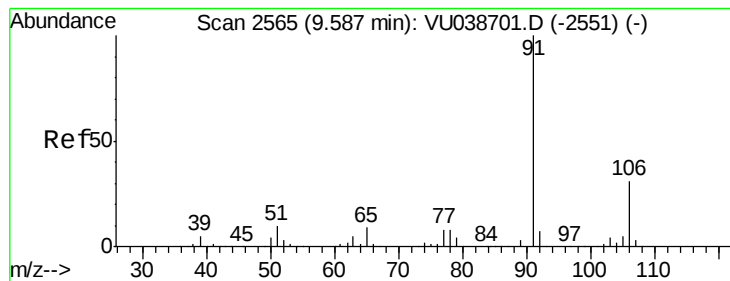
114 32.1 22.2 41.2

77 60.4 47.9 71.9



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





#52

Ethylbenzene

Concen: 54.695 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

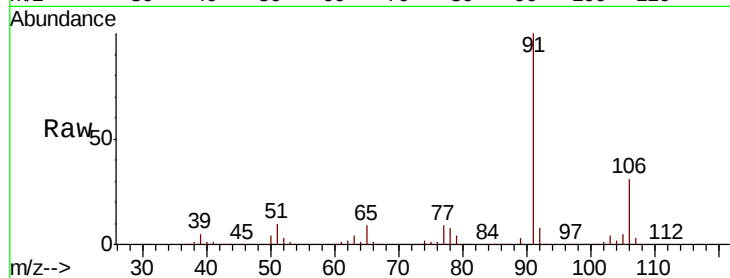
VSTD05045

Tot Ion: 91 Resp: 996172

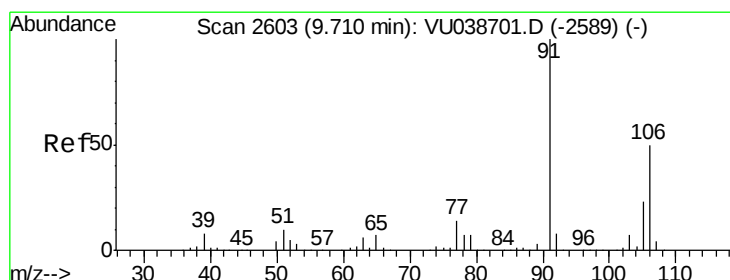
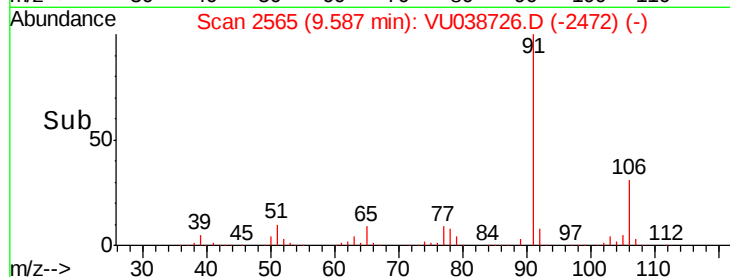
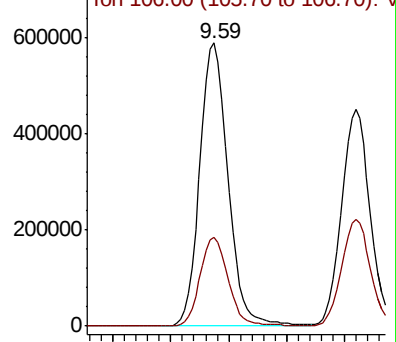
Ion Ratio Lower Upper

91 100

106 31.4 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VU038701.D (-2551) (-)



#53

m,p-Xylene

Concen: 55.541 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038726.D

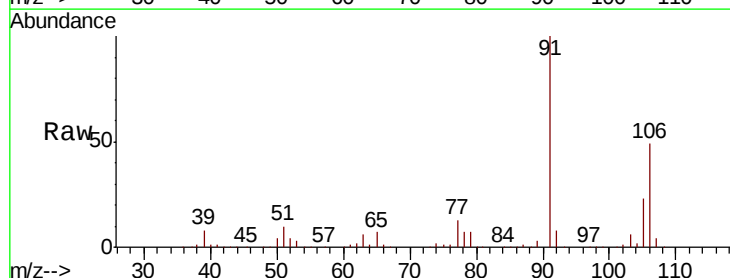
Acq: 09 Jun 2020 15:50

Tgt Ion: 106 Resp: 388314

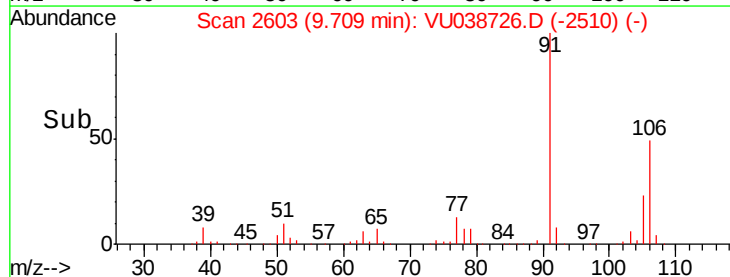
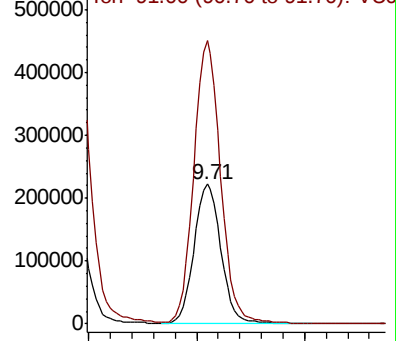
Ion Ratio Lower Upper

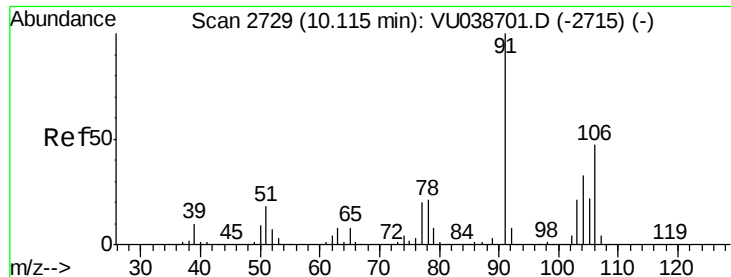
106 100

91 202.9 140.1 260.3



Abundance Ion 106.00 (105.70 to 106.70): VU038726.D (-2510) (-)





#54

o-xylene

Concen: 55.369 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

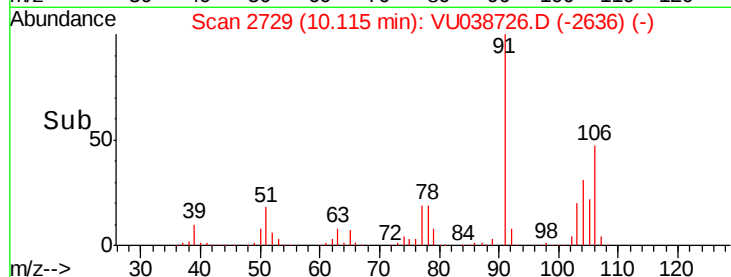
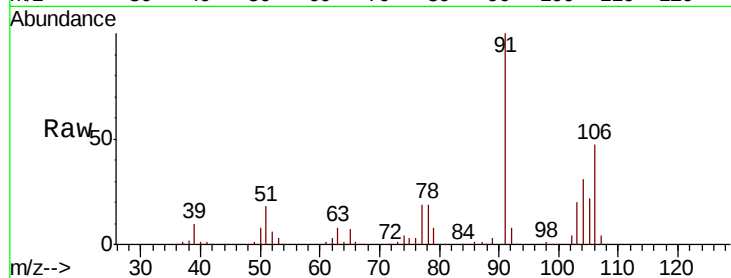
VSTD05045

Tot Ion:106 Resp: 375798

Ion Ratio Lower Upper

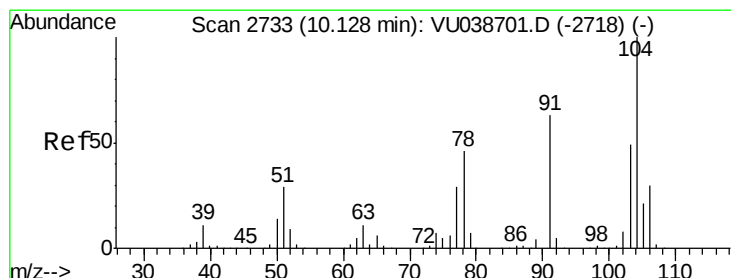
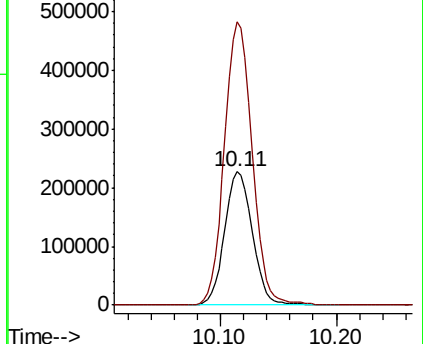
106 100

91 211.9 151.2 280.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.467 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU038726.D

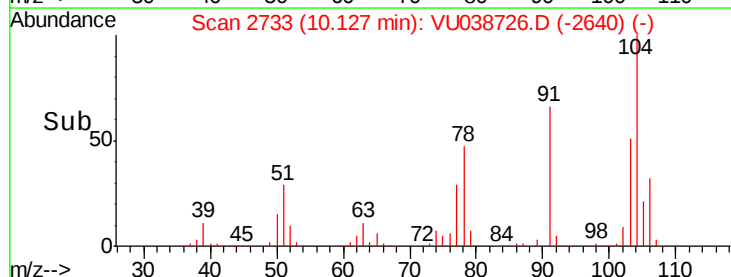
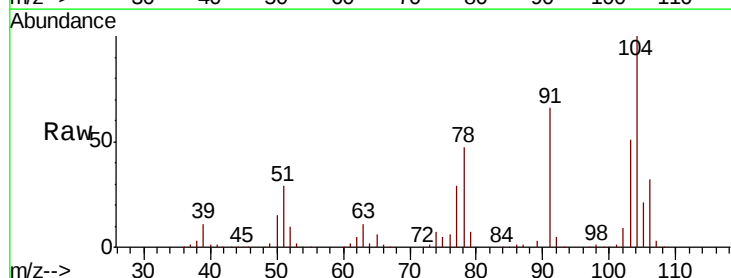
Acq: 09 Jun 2020 15:50

Tgt Ion:104 Resp: 640857

Ion Ratio Lower Upper

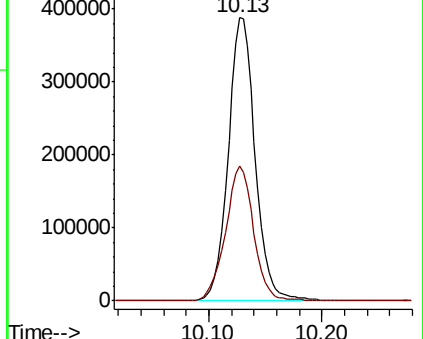
104 100

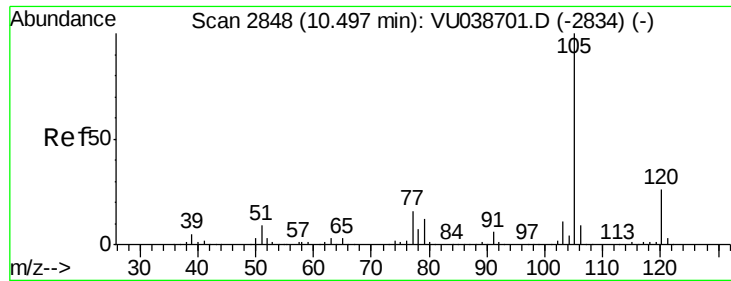
78 47.5 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 54.992 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

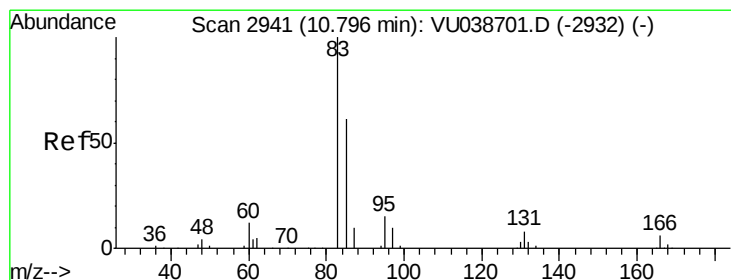
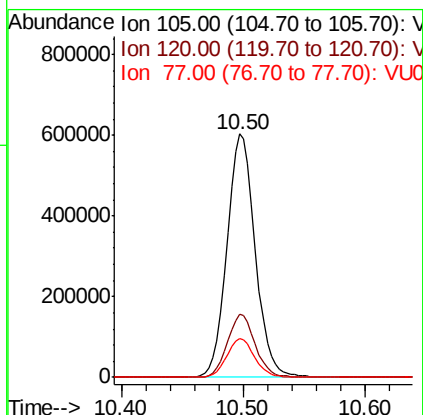
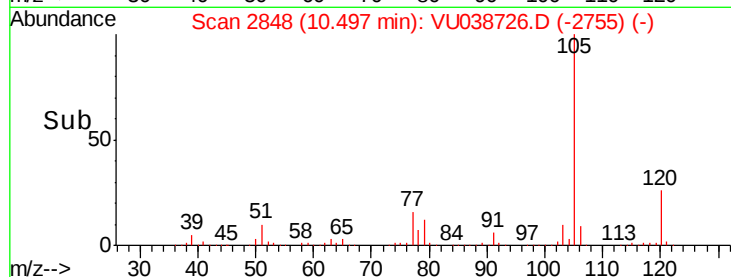
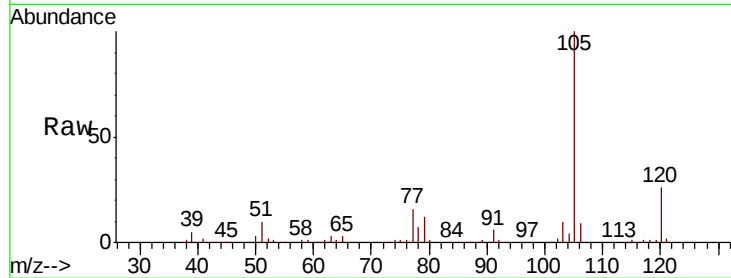
Tot Ion:105 Resp: 974131

Ion Ratio Lower Upper

105 100

120 25.7 20.9 31.3

77 15.8 12.6 19.0



#58

1,1,2,2-Tetrachloroethane

Concen: 50.480 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

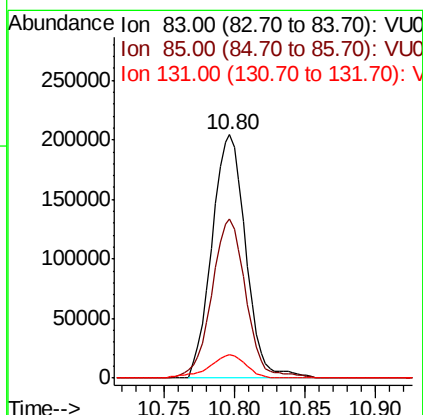
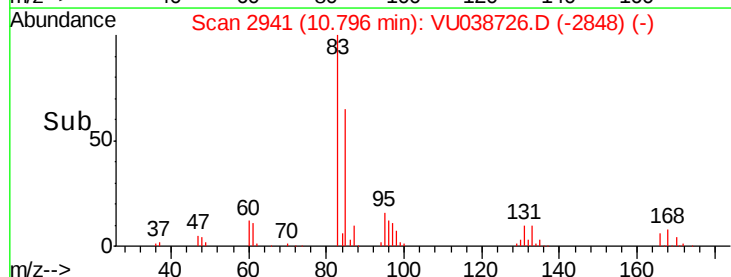
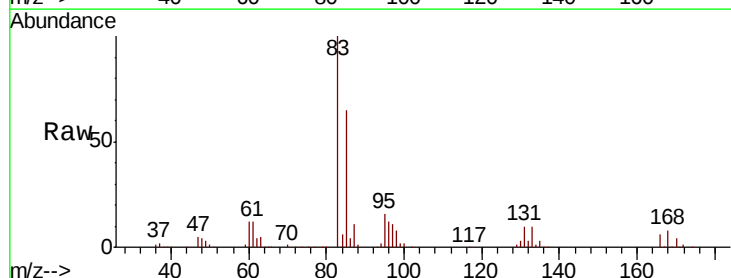
Tgt Ion: 83 Resp: 340088

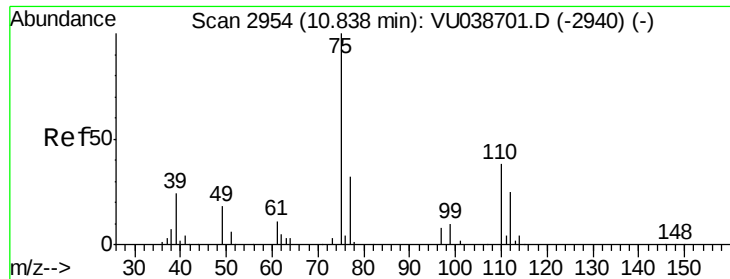
Ion Ratio Lower Upper

83 100

85 65.2 45.3 84.1

131 9.6 7.2 10.8





#59

1,2,3-Trichloropropane

Concen: 51.278 ug/L

RT: 10.83 min Scan# 2953

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

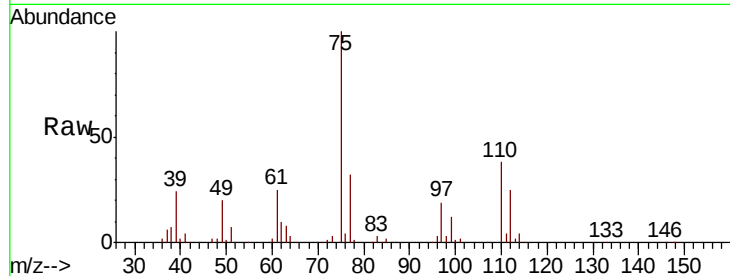
VSTD05045

Tot Ion: 75 Resp: 295707

Ion Ratio Lower Upper

75 100

77 32.1 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.83

200000

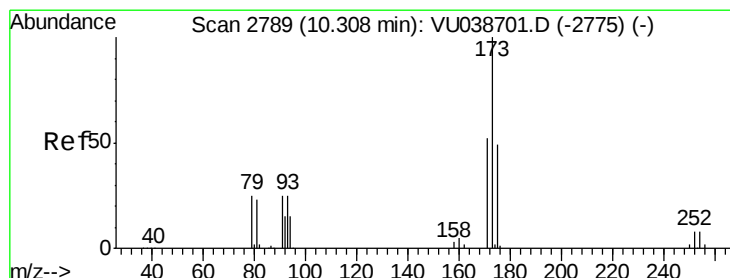
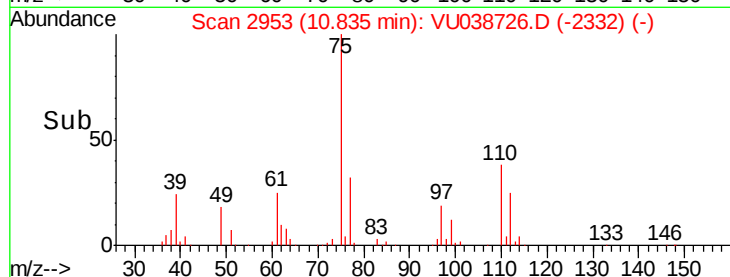
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 50.650 ug/L

RT: 10.30 min Scan# 2788

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

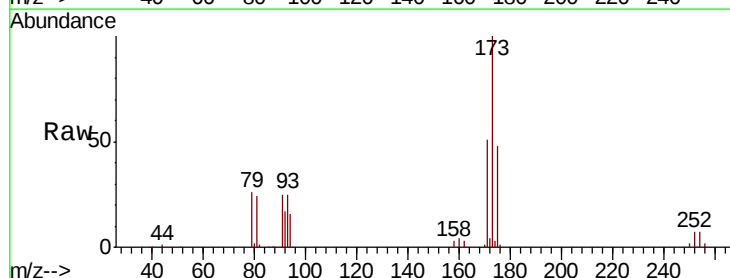
Tgt Ion:173 Resp: 152182

Ion Ratio Lower Upper

173 100

175 48.1 39.0 58.4

254 6.9 5.8 8.8



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

10.30

120000

100000

80000

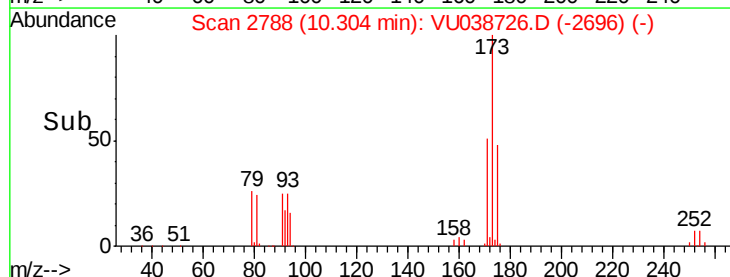
60000

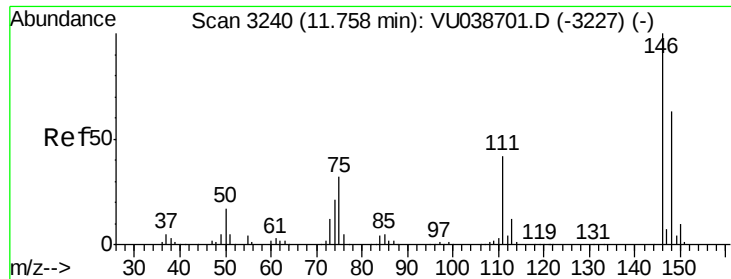
40000

20000

0

Time-->

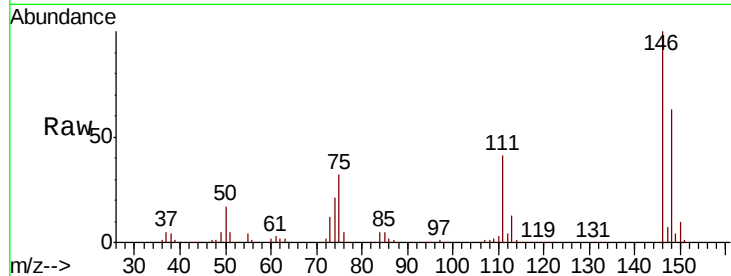




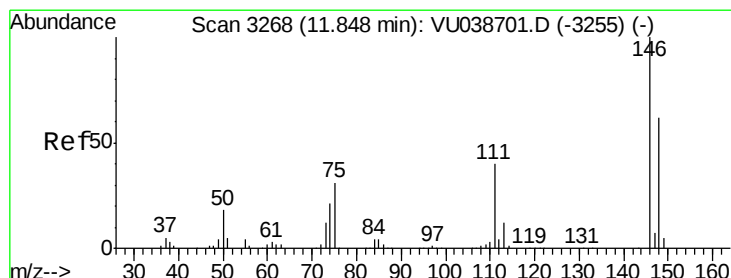
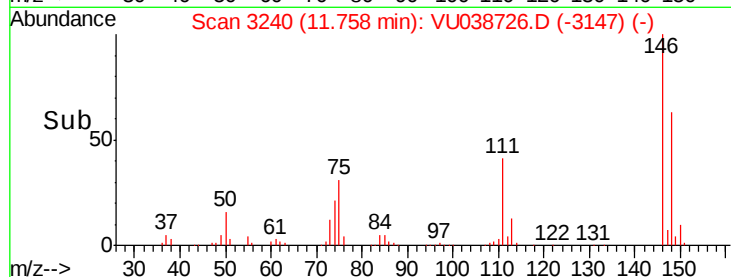
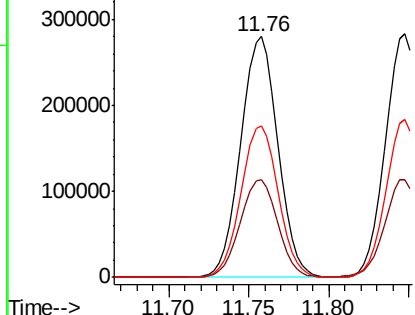
#62
 1,3-Dichlorobenzene
 Concen: 52.395 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU038726.D
 Acq: 09 Jun 2020 15:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

Tot Ion:146 Resp: 442994
 Ion Ratio Lower Upper
 146 100
 111 40.6 29.2 54.2
 148 63.2 45.2 84.0

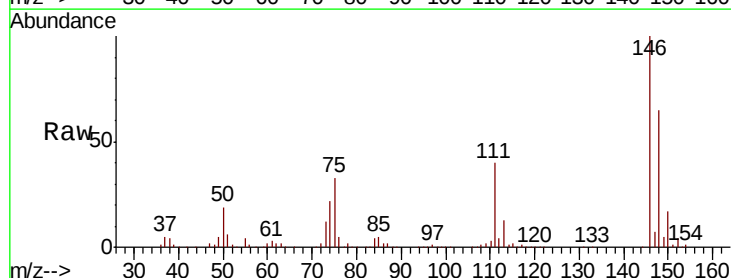


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

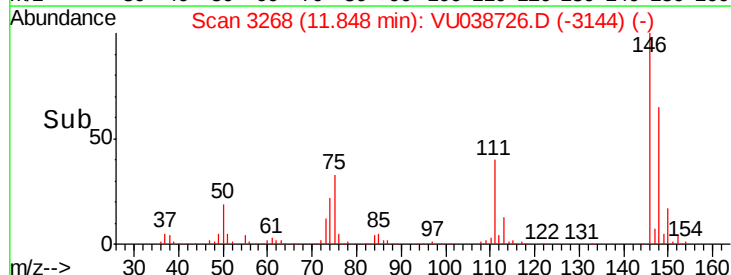
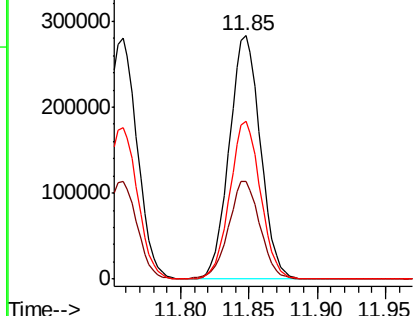


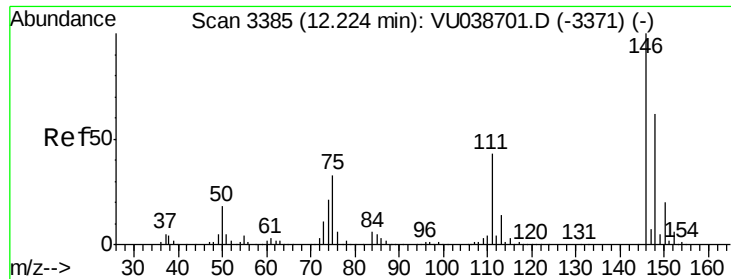
#63
 1,4-Dichlorobenzene
 Concen: 52.475 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038726.D
 Acq: 09 Jun 2020 15:50

Tgt Ion:146 Resp: 449262
 Ion Ratio Lower Upper
 146 100
 111 40.1 27.6 51.4
 148 64.8 44.3 82.3



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 51.728 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

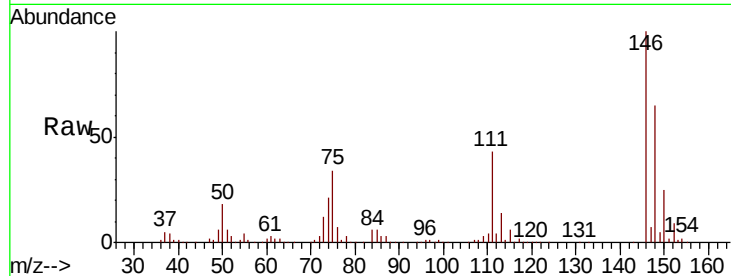
Tot Ion:146 Resp: 435294

Ion Ratio Lower Upper

146 100

111 43.4 34.8 52.2

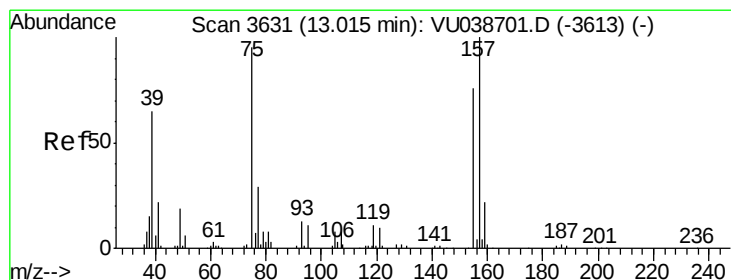
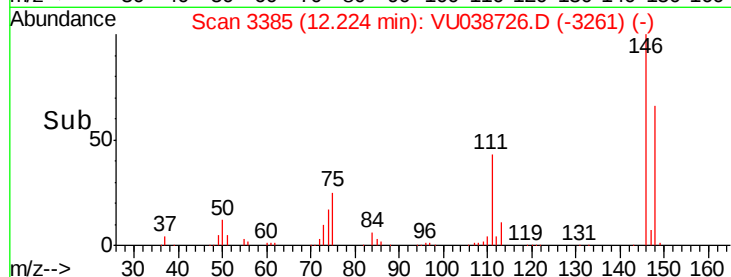
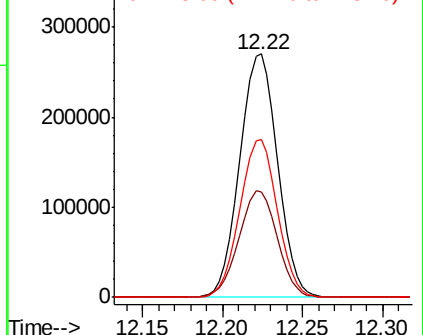
148 64.9 50.8 76.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 51.989 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

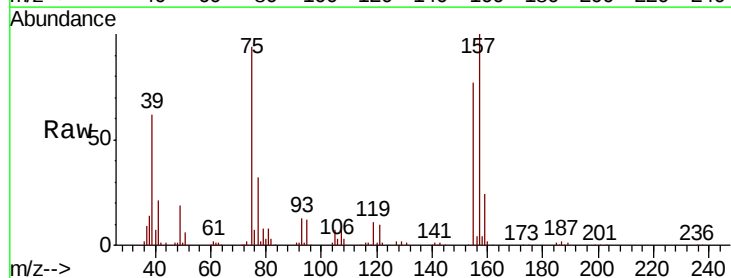
Tgt Ion: 75 Resp: 90664

Ion Ratio Lower Upper

75 100

155 81.9 63.8 95.6

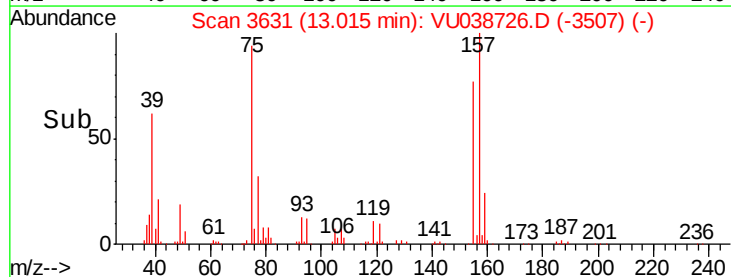
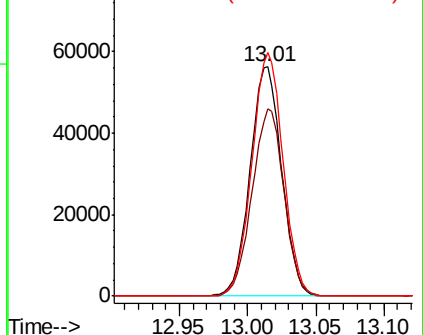
157 106.3 80.2 120.2

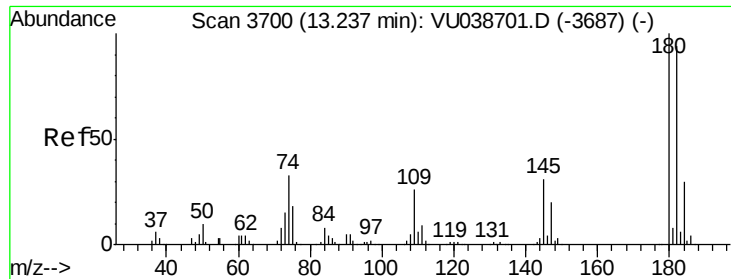


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

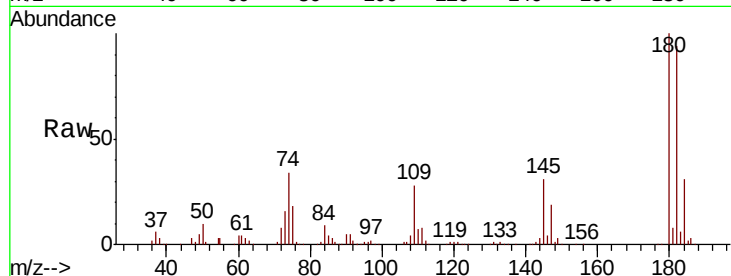




#67
 1,3,5-Trichlorobenzene
 Concen: 52.954 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.00 min
 Lab File: VU038726.D
 Acq: 09 Jun 2020 15:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.6	114.8
184	30.6	24.7	37.1
145	31.0	24.7	37.1



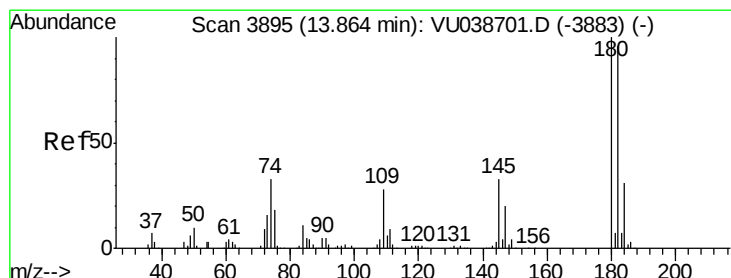
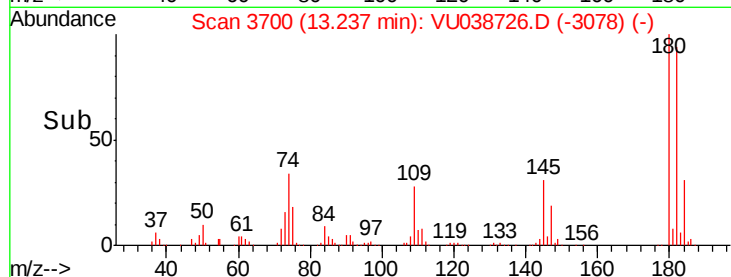
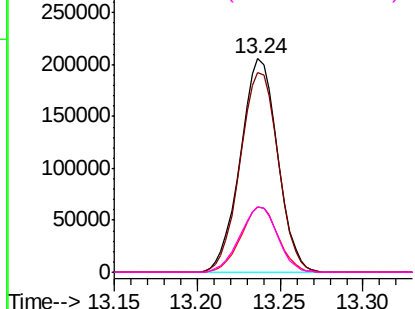
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

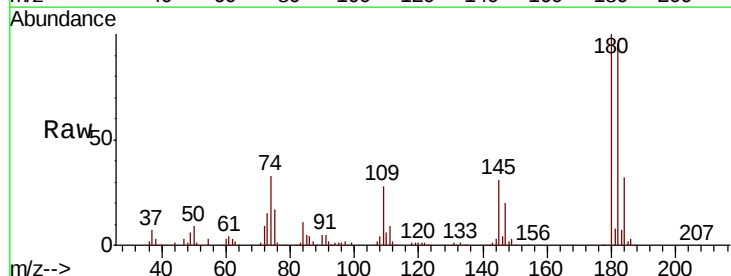
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 53.231 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU038726.D
 Acq: 09 Jun 2020 15:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.8	115.2
145	31.0	25.4	38.2

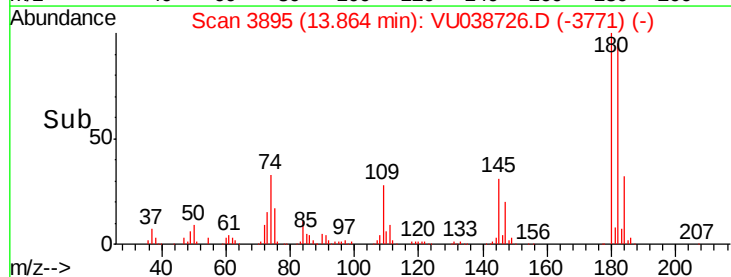
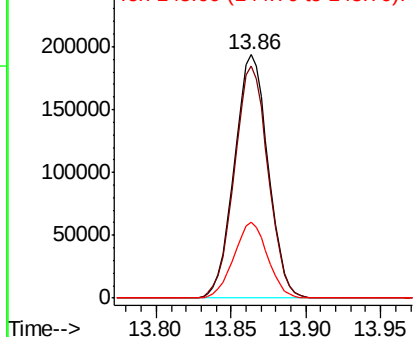


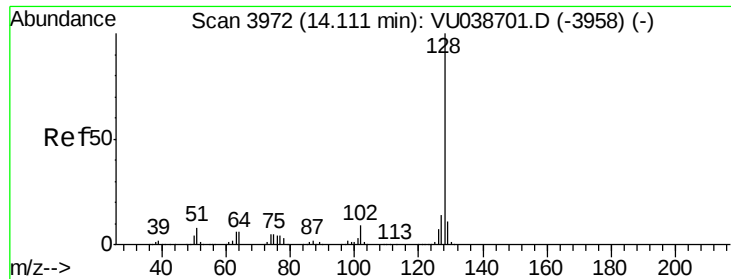
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 55.122 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

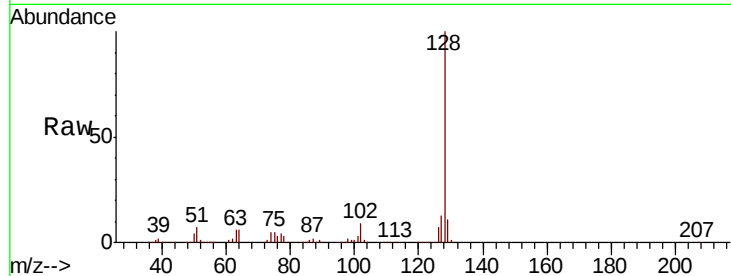
Tot Ion:128 Resp: 1115784

Ion Ratio Lower Upper

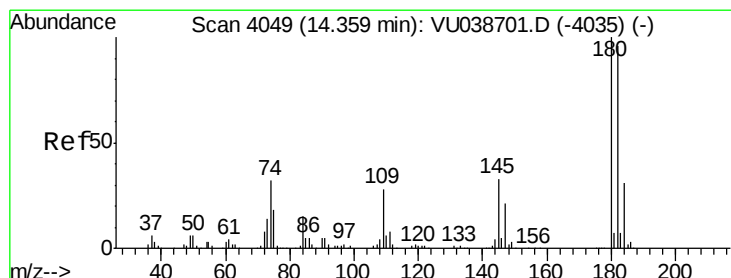
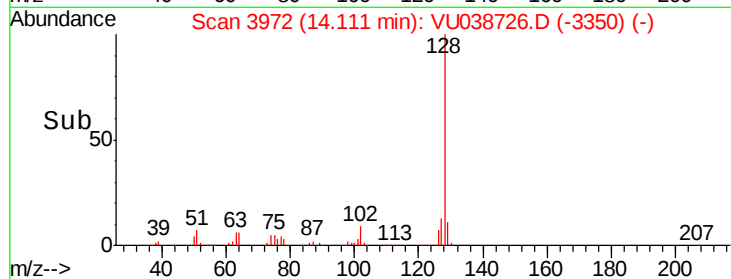
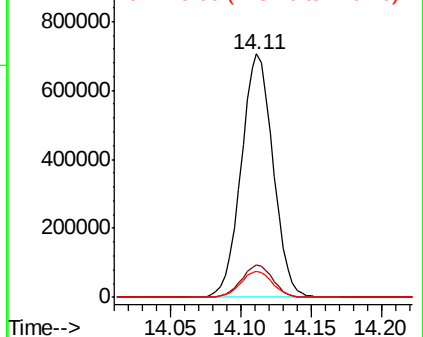
128 100

127 13.1 10.6 16.0

129 10.8 8.6 12.8



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



#70

1,2,3-Trichlorobenzene

Concen: 53.722 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU038726.D

Acq: 09 Jun 2020 15:50

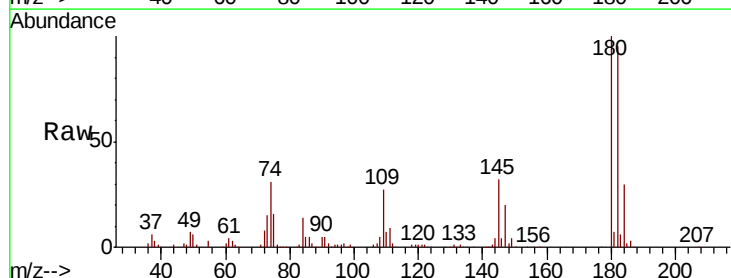
Tgt Ion:180 Resp: 308610

Ion Ratio Lower Upper

180 100

182 95.3 75.9 113.9

145 33.1 26.4 39.6



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

