

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\NOT REVIEWED DATA\
 Data File : VU038337.D
 Acq On : 28 May 2020 10:29
 Operator : JC/MD
 Sample : VSTD10032
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

Quant Time: May 28 11:29:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu May 28 11:11:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	628658	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	619258	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	315484	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	388960	98.56	ug/L	0.00
7) Chloroethane-d5	1.93	69	304275	99.79	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	794028	98.44	ug/L	0.00
21) 2-Butanone-d5	4.66	46	753072	200.84	ug/L	0.00
24) Chloroform-d	5.10	84	781764	100.88	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	506596	95.39	ug/L	0.00
32) Benzene-d6	5.76	84	1576057	97.95	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	492660	98.77	ug/L	0.00
41) Toluene-d8	7.92	98	1413116	99.35	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	254935	102.67	ug/L	0.00
47) 2-Hexanone-d5	8.65	63	553128	210.63	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	744088	100.80	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.20	152	566900	96.94	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	468327	98.971 ug/L	98
3) Chloromethane	1.53	50	432467	99.162 ug/L	99
5) Vinyl chloride	1.62	62	495613	102.868 ug/L	100
6) Bromomethane	1.87	94	216140	109.657 ug/L	98
8) Chloroethane	1.95	64	298182	101.287 ug/L	98
9) Trichlorofluoromethane	2.16	101	648891	100.495 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	384301	99.542 ug/L	99
12) 1,1-Dichloroethene	2.60	96	388537	101.937 ug/L	94
13) Acetone	2.66	43	546354	175.364 ug/L	98
14) Carbon disulfide	2.82	76	1263680	101.657 ug/L	100
15) Methyl Acetate	2.98	43	572398	102.493 ug/L	100
16) Methylene chloride	3.08	84	445801	101.788 ug/L	97
17) trans-1,2-Dichloroethene	3.38	96	421945	103.061 ug/L	98
18) Methyl tert-butyl Ether	3.40	73	1404142	106.953 ug/L	100
19) 1,1-Dichloroethane	3.91	63	801337	103.354 ug/L	100
20) cis-1,2-Dichloroethene	4.71	96	468316	104.418 ug/L	99
22) 2-Butanone	4.74	43	869578	199.076 ug/L	99
23) Bromochloromethane	5.01	128	225859	101.721 ug/L	96
25) Chloroform	5.12	83	791396	99.256 ug/L	99
27) 1,2-Dichloroethane	5.83	62	652824	101.120 ug/L	99
29) Cyclohexane	5.42	56	735782	103.628 ug/L	100
30) 1,1,1-Trichloroethane	5.35	97	698469	103.725 ug/L	99
31) Carbon tetrachloride	5.56	117	583192	103.915 ug/L	100
33) Benzene	5.81	78	1785354	102.651 ug/L	100
34) Trichloroethene	6.57	95	447237	100.504 ug/L	99
35) Methylcyclohexane	6.79	83	725530	103.846 ug/L	99
37) 1,2-Dichloropropane	6.82	63	469322	104.048 ug/L	100
38) Bromodichloromethane	7.13	83	607799	105.148 ug/L	100
39) cis-1,3-Dichloropropene	7.63	75	766328	106.765 ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	1552106	216.365 ug/L	100

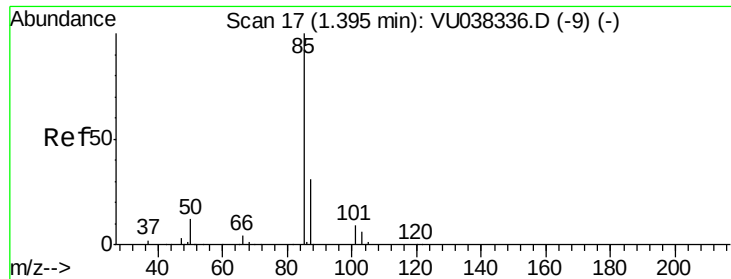
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\NOT REVIEWED DATA\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	1905166	104.338	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	732229	108.982	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	443933	103.712	ug/L	98
46) Tetrachloroethene	8.57	164	327716	100.735	ug/L	99
48) 2-Hexanone	8.71	43	1293272	213.525	ug/L	100
49) Dibromochloromethane	8.83	129	465927	107.505	ug/L	98
50) 1,2-Dibromoethane	8.94	107	476383	103.541	ug/L	97
51) Chlorobenzene	9.47	112	1198511	102.130	ug/L	100
52) Ethylbenzene	9.59	91	2168424	105.988	ug/L	100
53) m,p-Xylene	9.71	106	835083	106.733	ug/L	98
54) o-xylene	10.12	106	811953	106.740	ug/L	98
55) Styrene	10.13	104	1418776	108.520	ug/L	100
56) Isopropylbenzene	10.50	105	2126915	106.995	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	761572	103.967	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	656610	104.098	ug/L	99
61) Bromoform	10.31	173	338980	106.952	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	952983	103.329	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	959164	102.316	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	943787	103.192	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.01	75	202053	107.913	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	694128	105.752	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	684389	108.714	ug/L	99
69) Naphthalene	14.11	128	2605913	115.612	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	697543	110.917	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 98.971 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

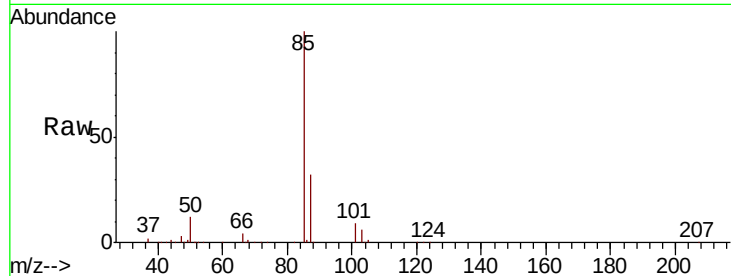
VSTD10032

Tot Ion: 85 Resp: 468327

Ion Ratio Lower Upper

85 100

87 32.5 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU038337.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038337.D (-9) (-)

1.39

500000

400000

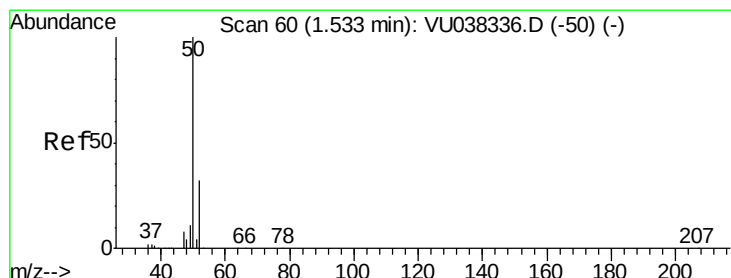
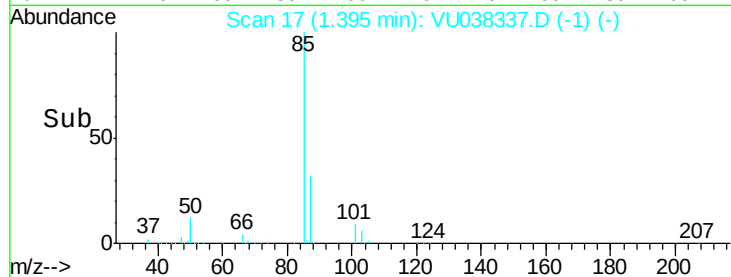
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 99.162 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038337.D

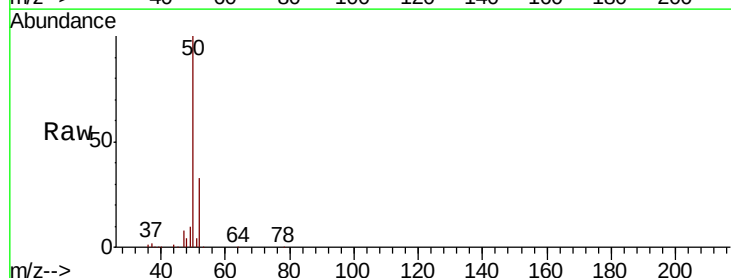
Acq: 28 May 2020 10:29

Tgt Ion: 50 Resp: 432467

Ion Ratio Lower Upper

50 100

52 32.6 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VU038337.D (-50) (-)

Ion 52.00 (51.70 to 52.70): VU038337.D (-50) (-)

1.53

400000

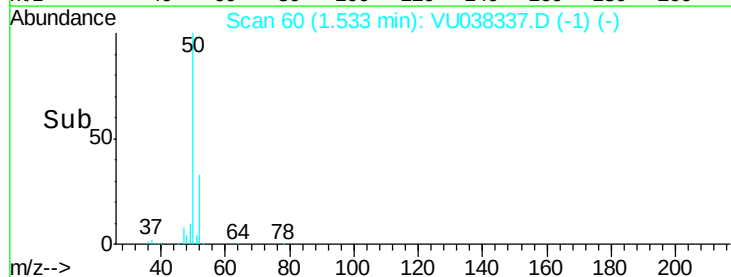
300000

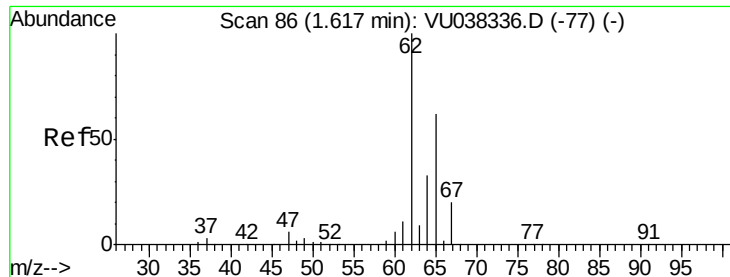
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 102.868 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

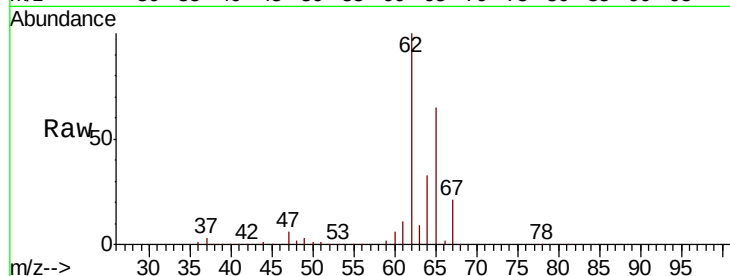
VSTD10032

Tot Ion: 62 Resp: 495613

Ion Ratio Lower Upper

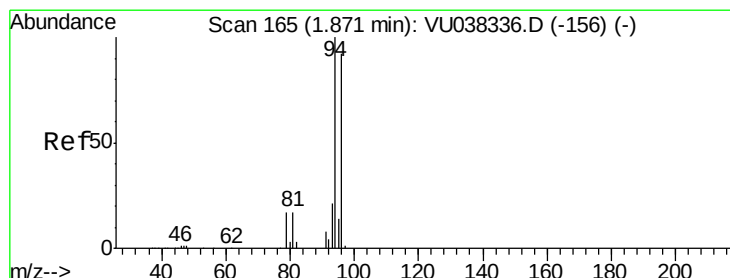
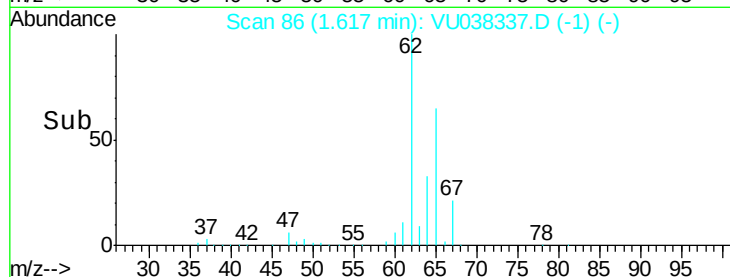
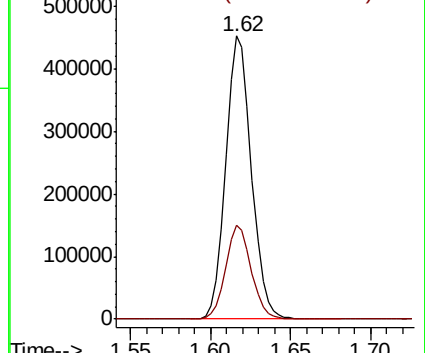
62 100

64 33.2 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 109.657 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU038337.D

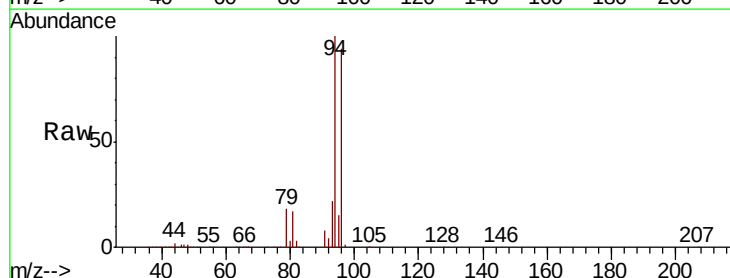
Acq: 28 May 2020 10:29

Tgt Ion: 94 Resp: 216140

Ion Ratio Lower Upper

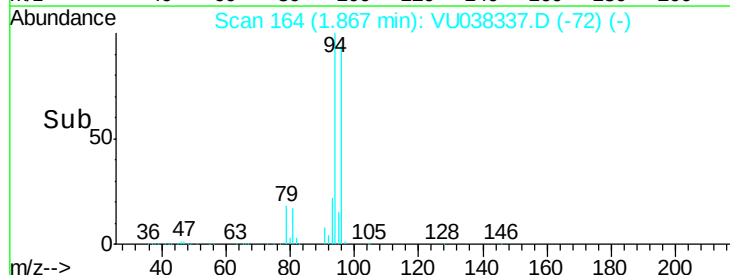
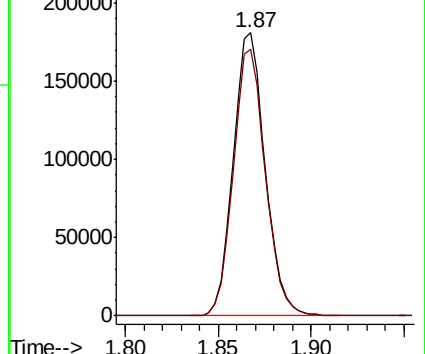
94 100

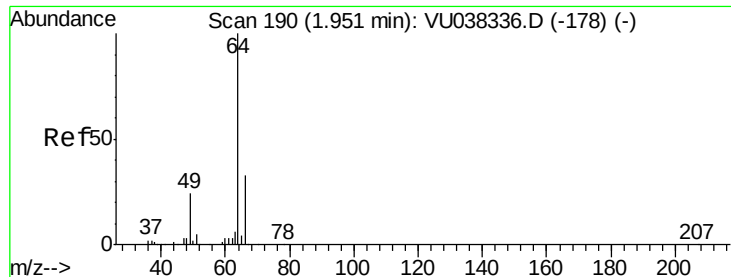
96 94.2 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 101.287 ug/L

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

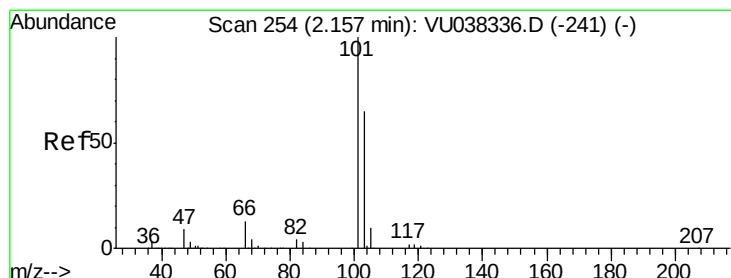
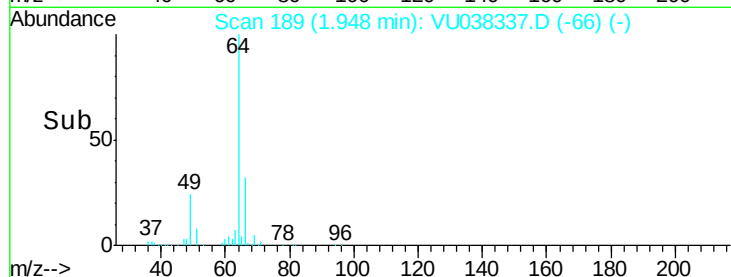
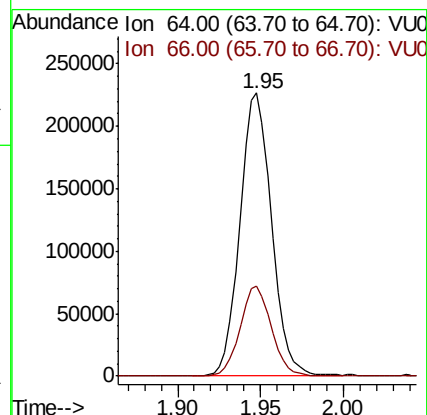
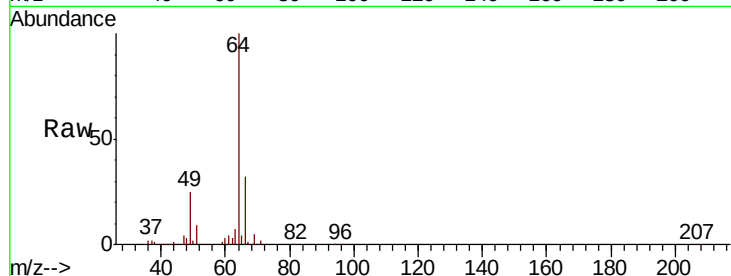
VSTD10032

Tot Ion: 64 Resp: 298182

Ion Ratio Lower Upper

64 100

66 32.0 23.0 42.8



#9

Trichlorofluoromethane

Concen: 100.495 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU038337.D

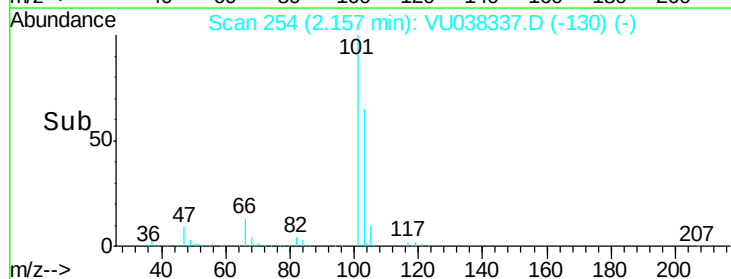
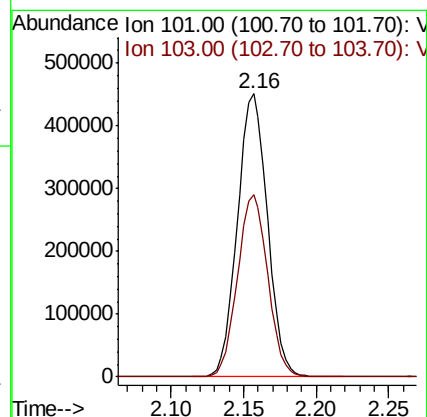
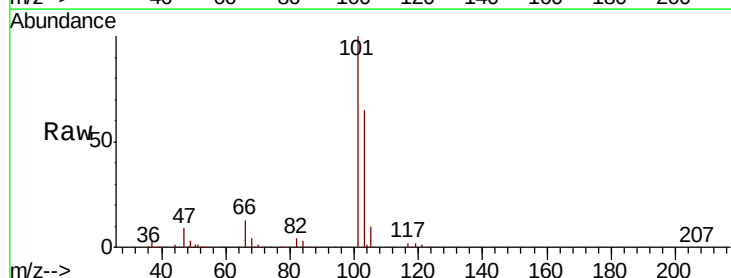
Acq: 28 May 2020 10:29

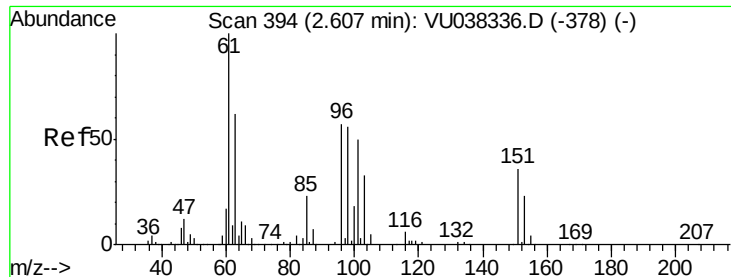
Tgt Ion: 101 Resp: 648891

Ion Ratio Lower Upper

101 100

103 64.6 51.4 77.0





#10

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

Concen: 99.542 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

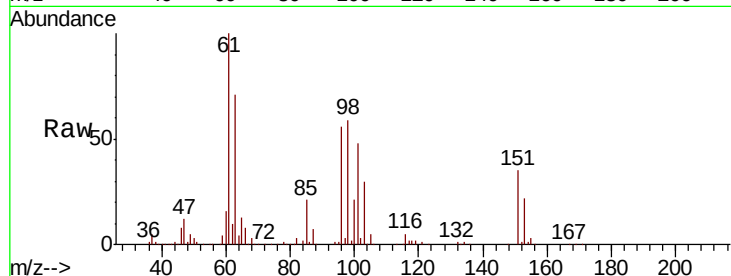
Tot Ion:101 Resp: 384301

Ion Ratio Lower Upper

101 100

85 43.7 35.5 53.3

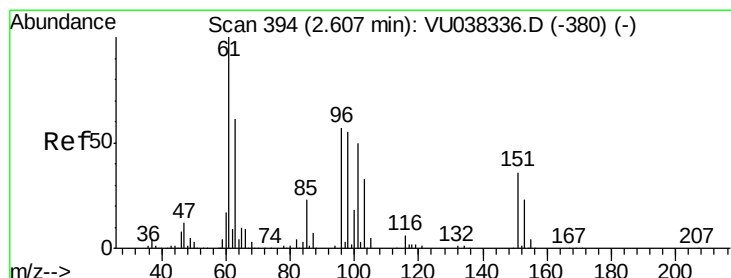
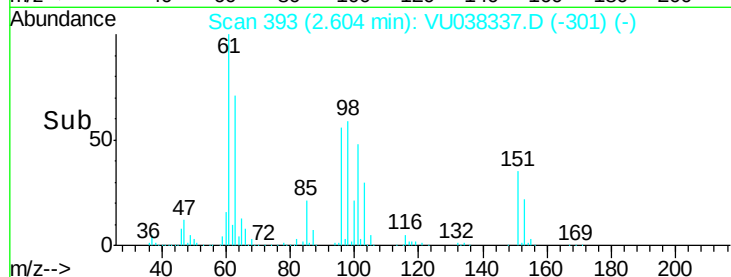
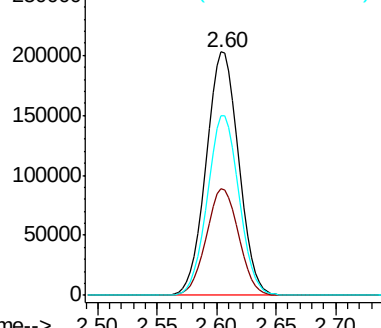
151 72.2 58.4 87.6



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: 101.937 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

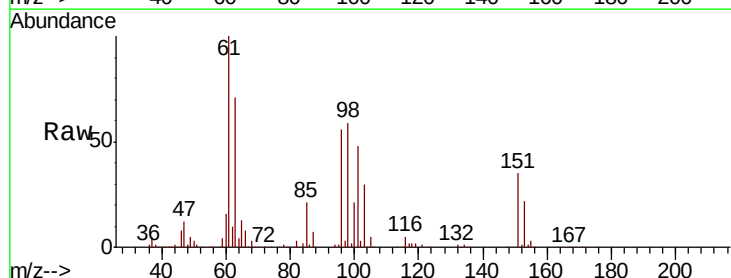
Tgt Ion: 96 Resp: 388537

Ion Ratio Lower Upper

96 100

61 177.1 123.5 229.3

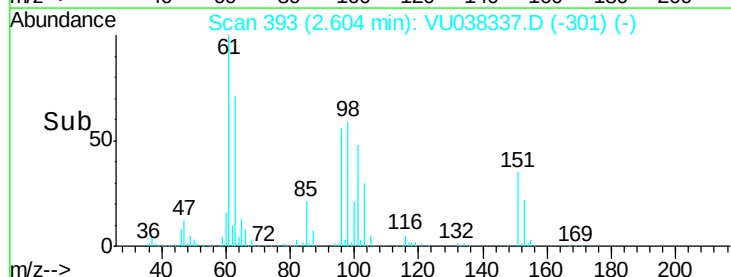
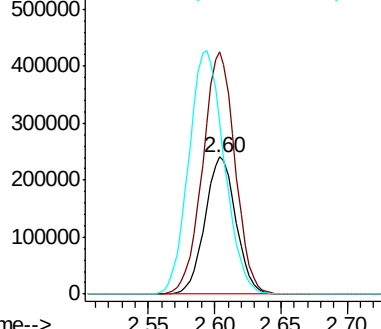
63 125.6 76.6 142.2

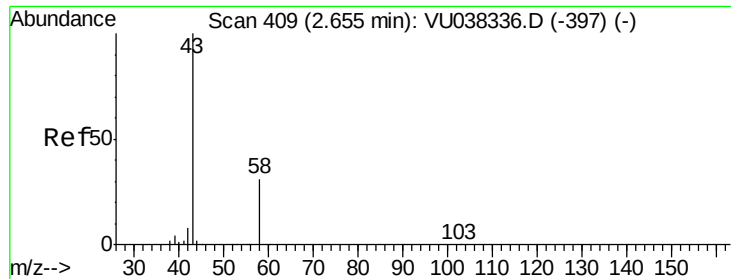


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 175.364 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

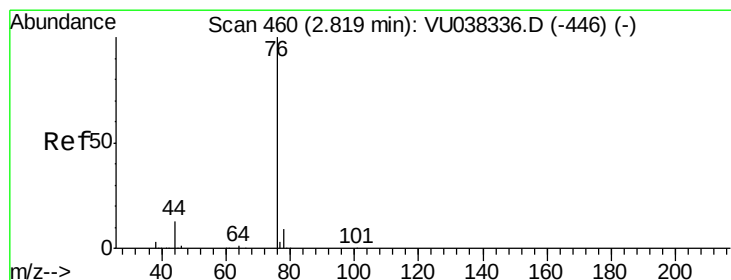
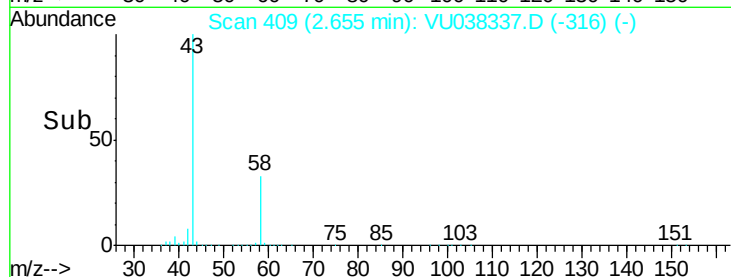
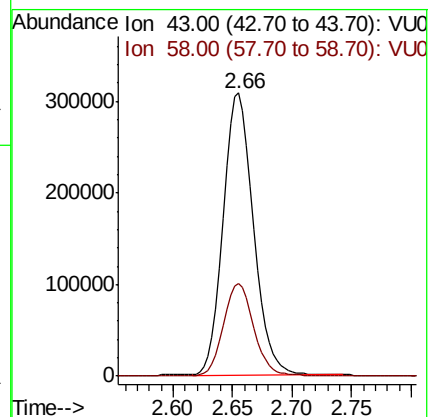
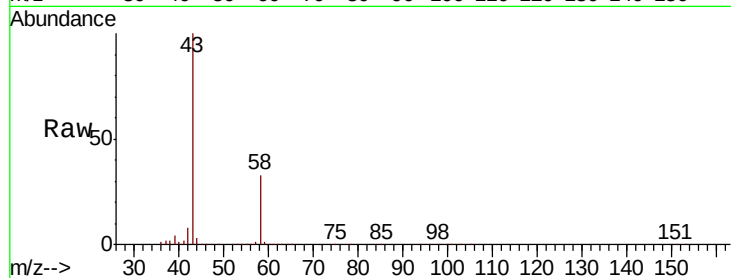
VSTD10032

Tot Ion: 43 Resp: 546354

Ion Ratio Lower Upper

43 100

58 32.9 0.0 63.4



#14

Carbon disulfide

Concen: 101.657 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU038337.D

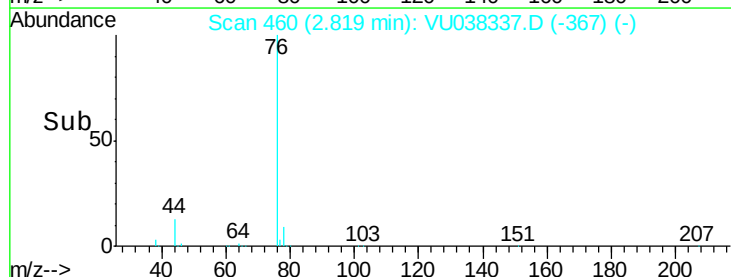
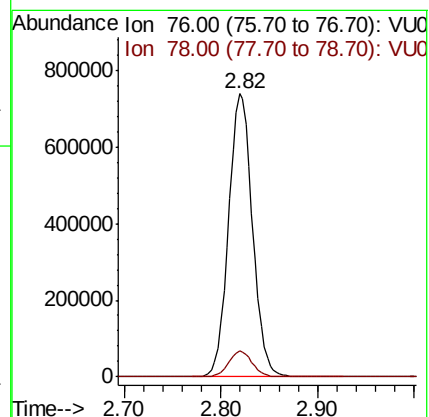
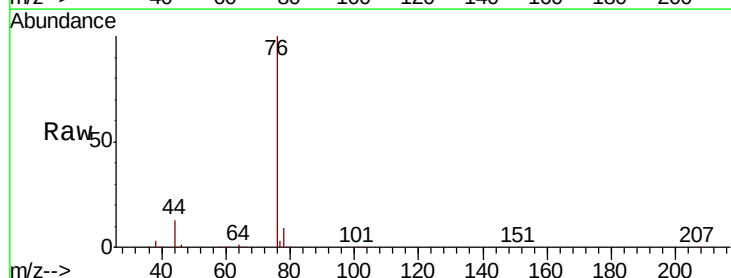
Acq: 28 May 2020 10:29

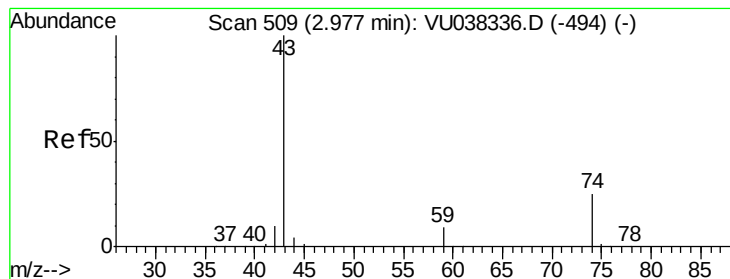
Tgt Ion: 76 Resp: 1263680

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methvl Acetate

Concen: 102.493 ug/L

RT: 2.98 min Scan# 509

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

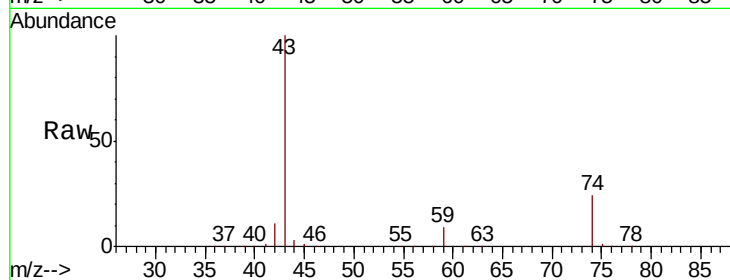
VSTD10032

Tot Ion: 43 Resp: 572398

Ion Ratio Lower Upper

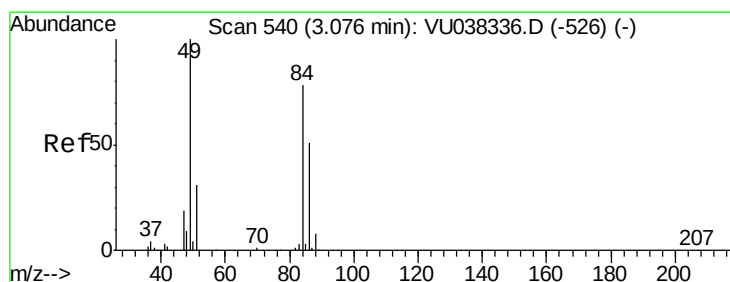
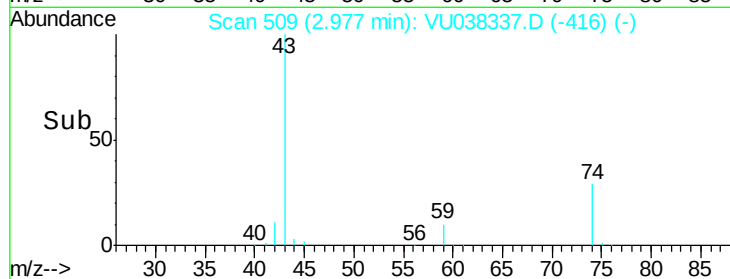
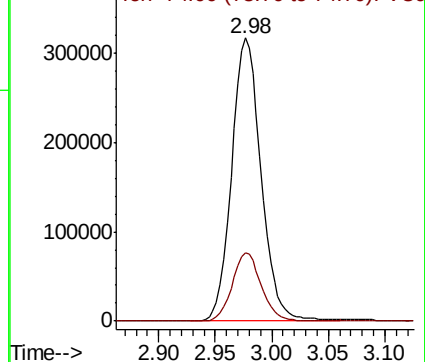
43 100

74 23.9 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 101.788 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

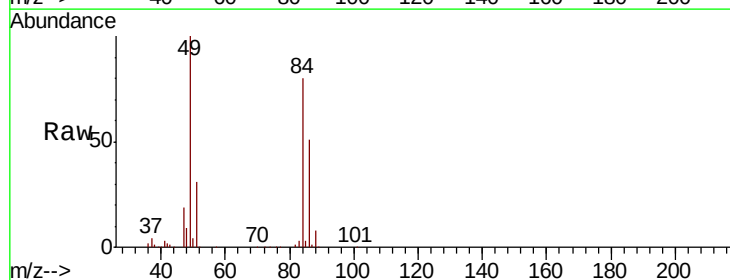
Tgt Ion: 84 Resp: 445801

Ion Ratio Lower Upper

84 100

86 63.7 46.1 85.7

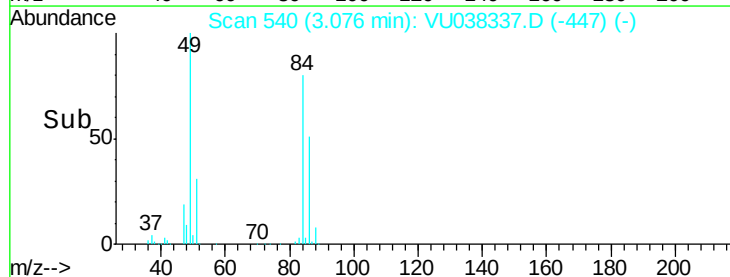
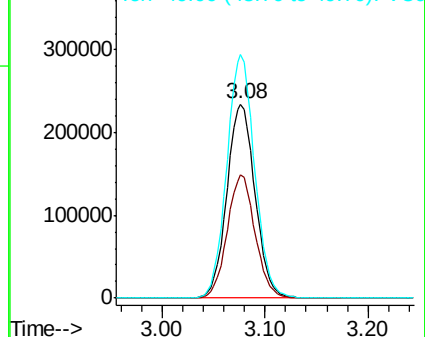
49 125.4 90.0 167.2

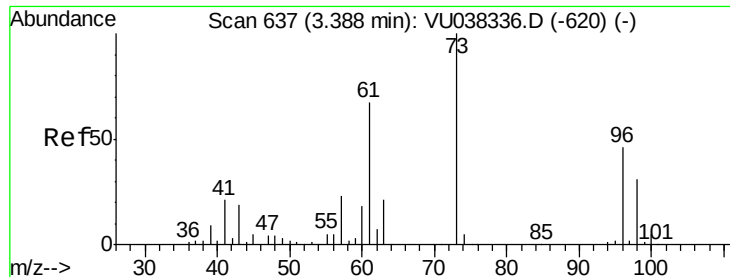


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

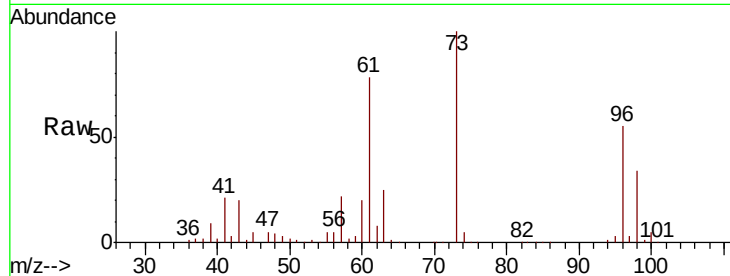




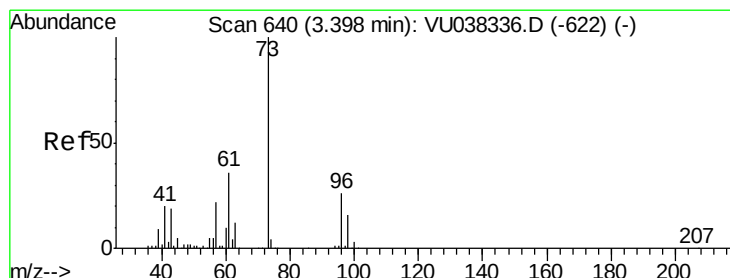
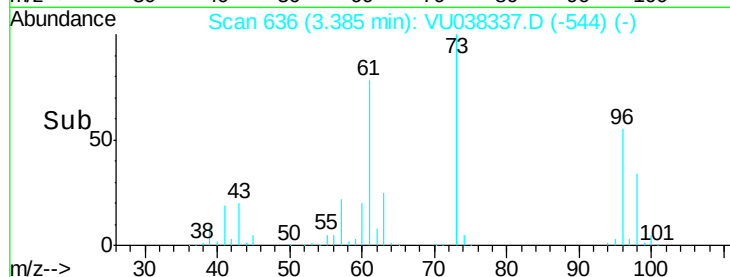
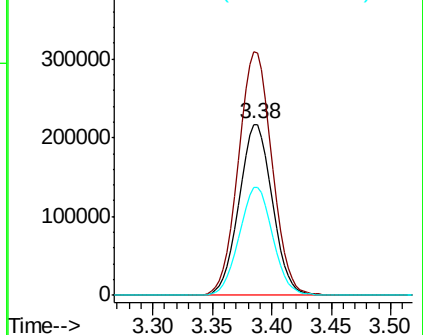
#17
trans-1,2-Dichloroethene
Concen: 103.061 ug/L
RT: 3.38 min Scan# 636
Delta R.T. -0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

Tot Ion: 96 Resp: 421945
Ion Ratio Lower Upper
96 100
61 142.2 100.4 186.4
98 62.8 46.1 85.5

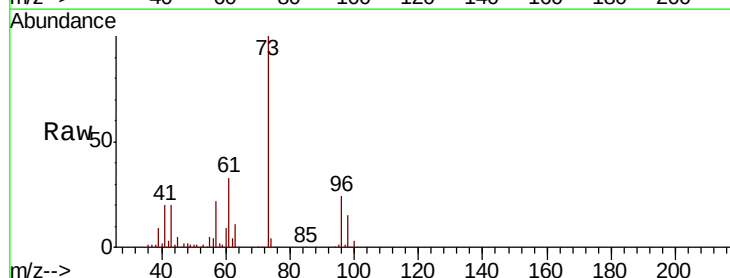


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

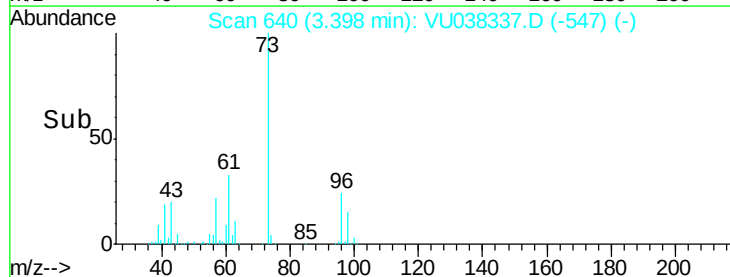
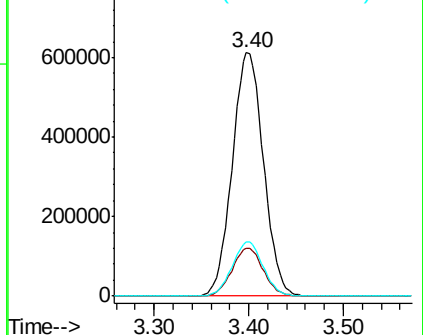


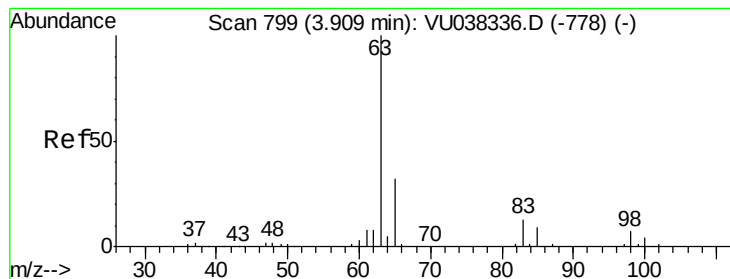
#18
Methyl tert-butyl Ether
Concen: 106.953 ug/L
RT: 3.40 min Scan# 640
Delta R.T. -0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

Tgt Ion: 73 Resp: 1404142
Ion Ratio Lower Upper
73 100
43 19.7 15.7 23.5
57 22.0 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 103.354 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

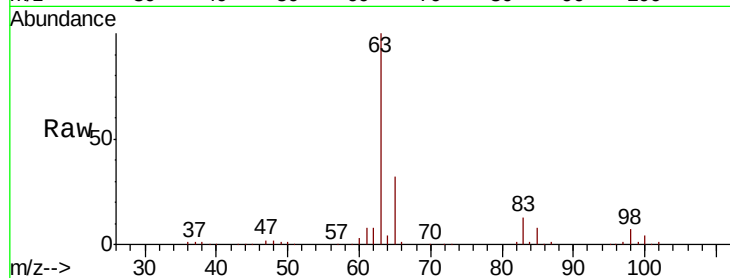
Tot Ion: 63 Resp: 801337

Ion Ratio Lower Upper

63 100

65 31.7 22.2 41.2

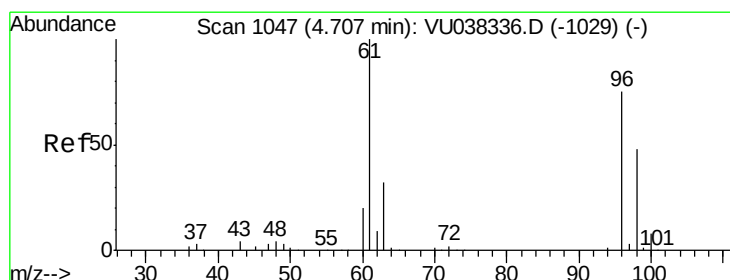
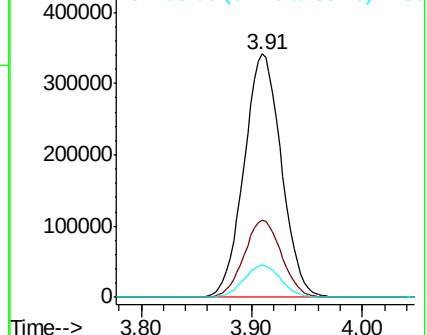
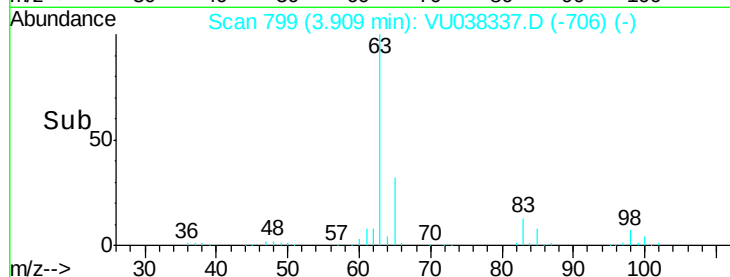
83 13.1 9.4 17.4



Abundance Ion 63.00 (62.70 to 63.70): VU038337.D (-706) (-)

Ion 65.00 (64.70 to 65.70): VU038337.D (-706) (-)

Ion 83.00 (82.70 to 83.70): VU038337.D (-706) (-)



#20

cis-1,2-Dichloroethene

Concen: 104.418 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

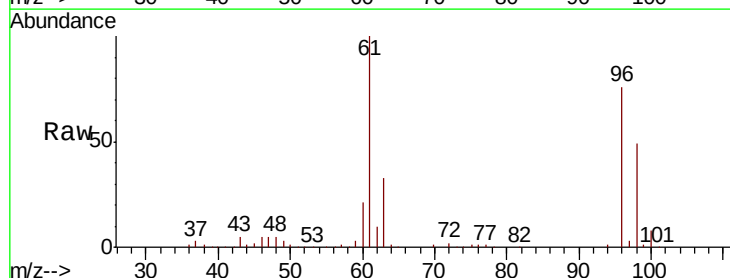
Tgt Ion: 96 Resp: 468316

Ion Ratio Lower Upper

96 100

61 132.4 93.4 173.4

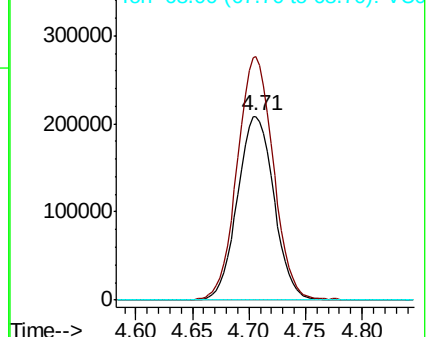
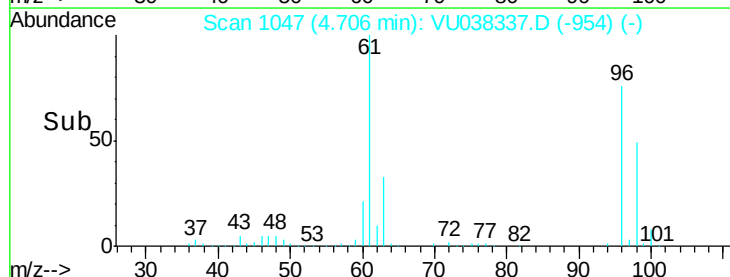
68 0.0 0.0 0.0

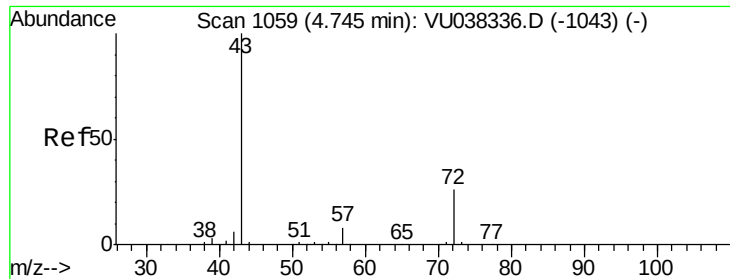


Abundance Ion 96.00 (95.70 to 96.70): VU038337.D (-954) (-)

Ion 61.00 (60.70 to 61.70): VU038337.D (-954) (-)

Ion 68.00 (67.70 to 68.70): VU038337.D (-954) (-)





#22

2-Butanone

Concen: 199.076 ug/L

RT: 4.74 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

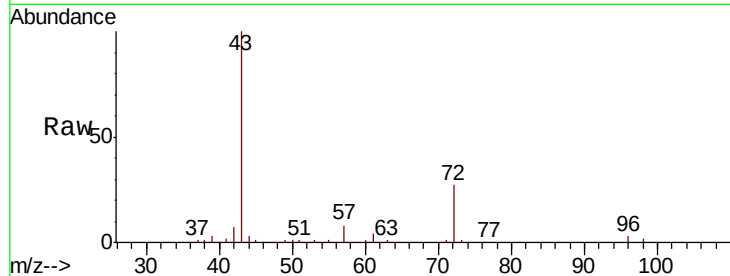
VSTD10032

Tot Ion: 43 Resp: 869578

Ion Ratio Lower Upper

43 100

72 27.1 13.8 41.3



Abundance Ion 43.00 (42.70 to 43.70): VU038337.D (-1043) (-)

Ion 72.00 (71.70 to 72.70): VU038337.D (-1043) (-)

4.74

400000

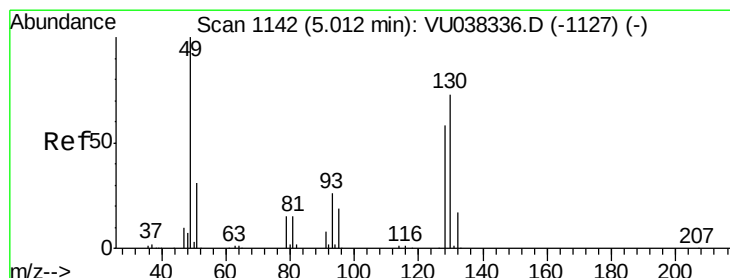
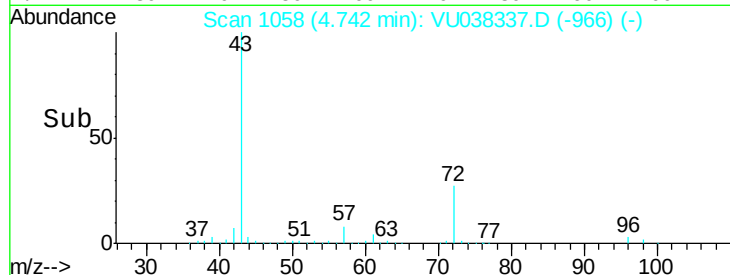
300000

200000

100000

0

Time--> 4.60 4.70 4.80 4.90



#23

Bromochloromethane

Concen: 101.721 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Tgt Ion: 128 Resp: 225859

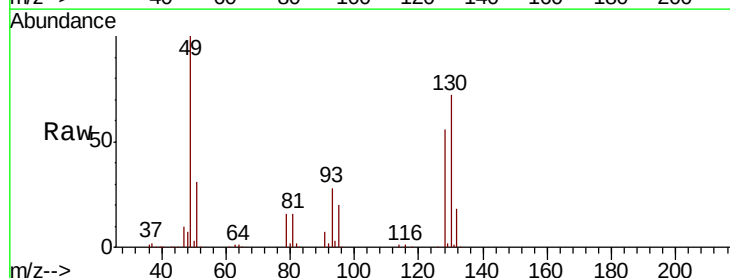
Ion Ratio Lower Upper

128 100

49 178.0 120.1 223.1

130 128.8 88.1 163.5

51 54.8 41.8 62.8



Abundance Ion 128.00 (127.70 to 128.70): VU038337.D (-1127) (-)

Ion 49.00 (48.70 to 49.70): VU038337.D (-1127) (-)

Ion 130.00 (129.70 to 130.70): VU038337.D (-1127) (-)

Ion 51.00 (50.70 to 51.70): VU038337.D (-1127) (-)

300000

250000

200000

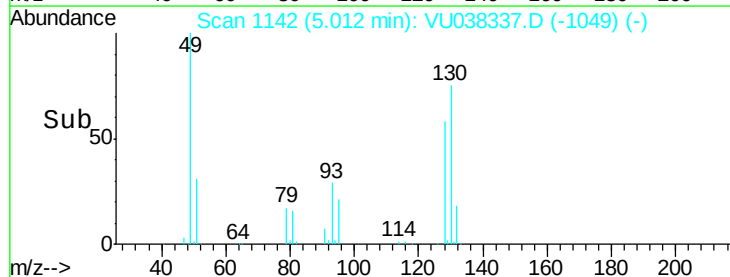
150000

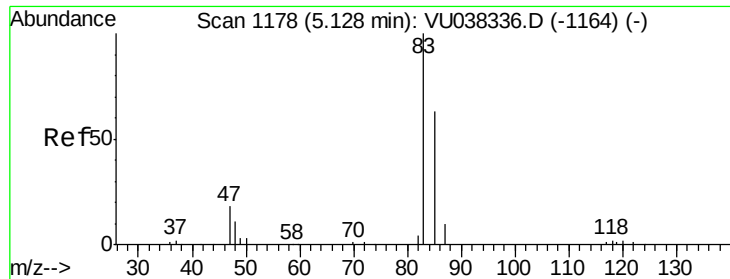
100000

50000

0

Time--> 4.90 4.95 5.00 5.05 5.10

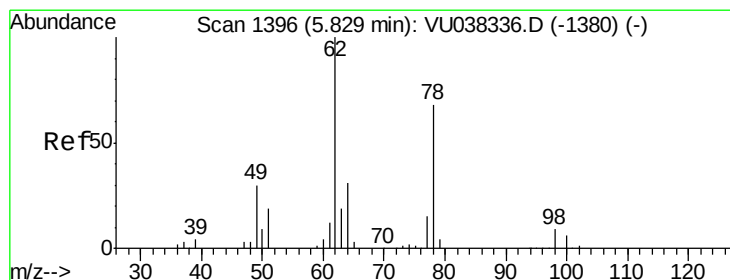
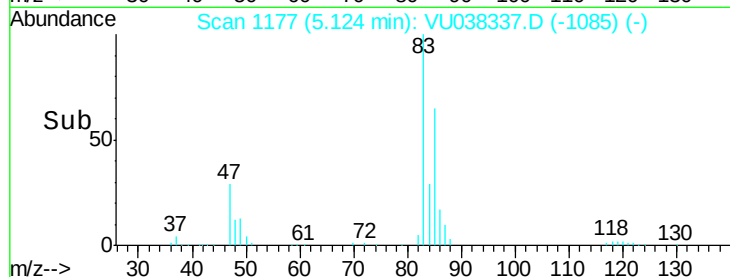
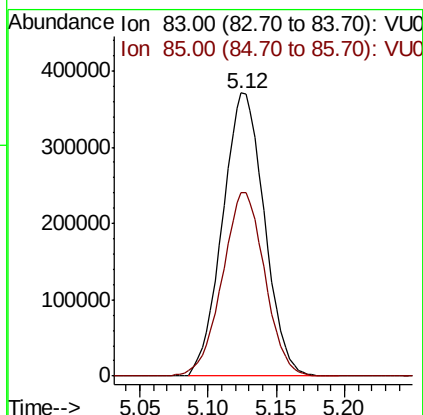
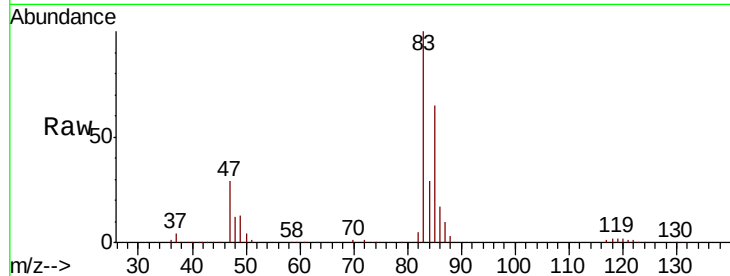




#25
Chloroform
Concen: 99.256 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

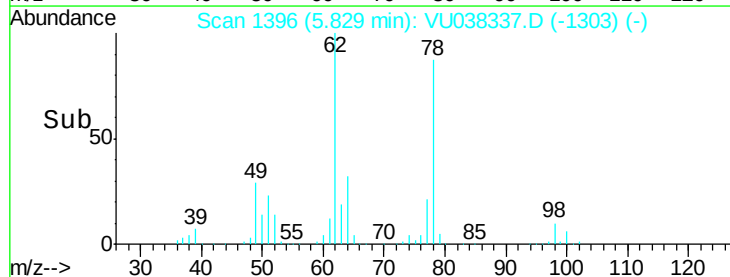
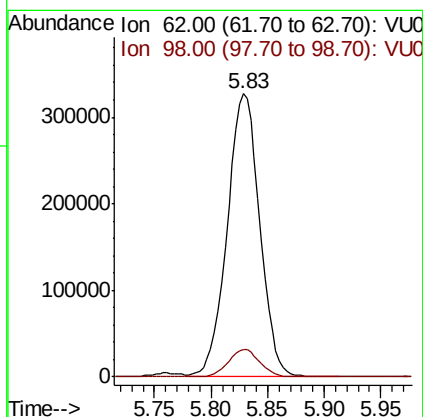
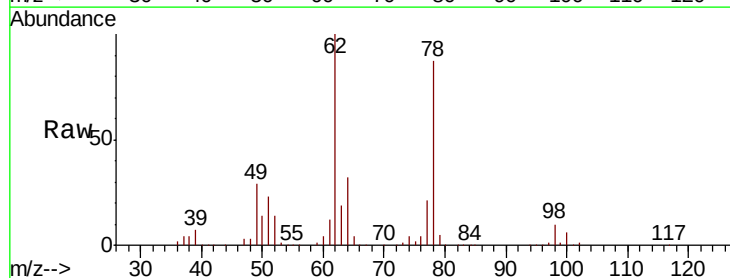
Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

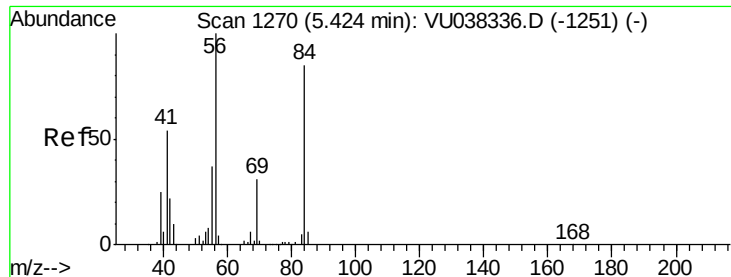
Tot Ion: 83 Resp: 791396
Ion Ratio Lower Upper
83 100
85 64.8 44.9 83.5



#27
1,2-Dichloroethane
Concen: 101.120 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

Tgt Ion: 62 Resp: 652824
Ion Ratio Lower Upper
62 100
98 9.9 7.5 11.3

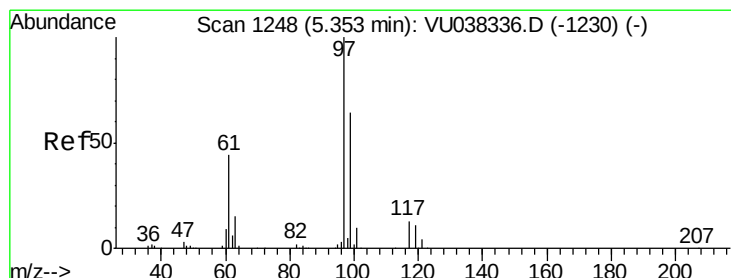
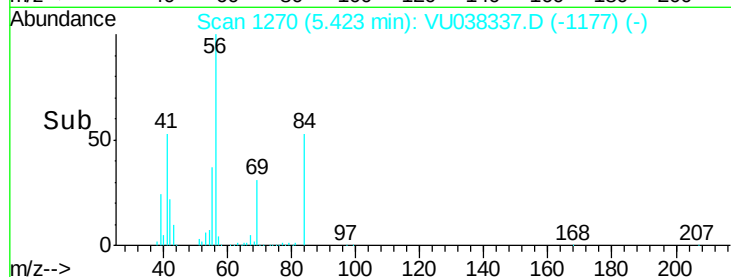
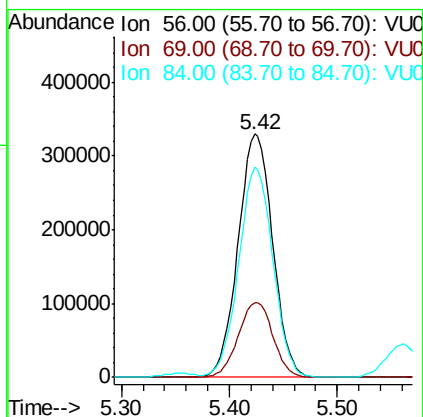
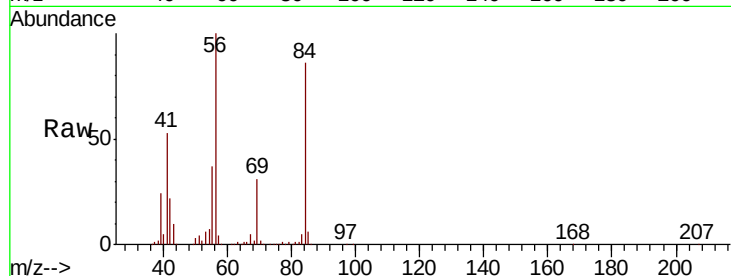




#29
Cyclohexane
Concen: 103.628 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

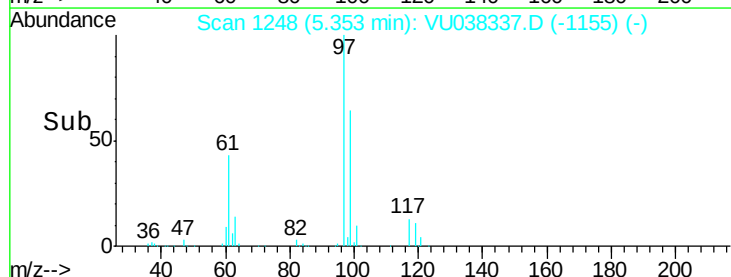
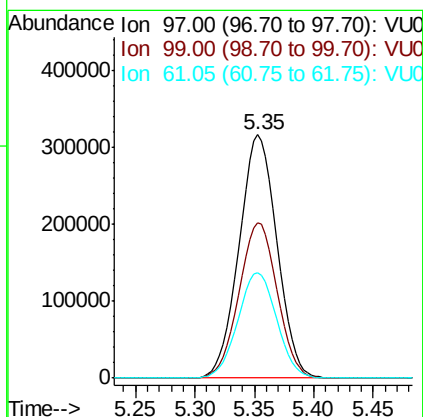
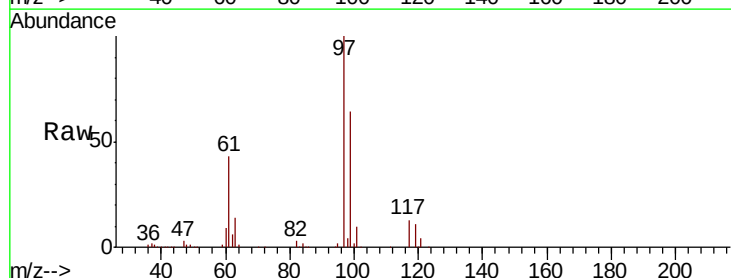
Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

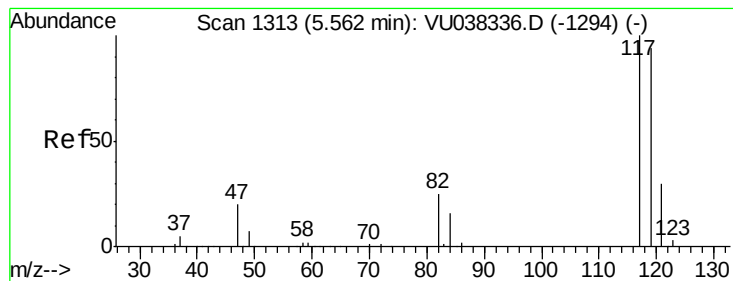
Tot Ion: 56 Resp: 735782
Ion Ratio Lower Upper
56 100
69 30.9 24.7 37.1
84 85.6 68.2 102.4



#30
1,1,1-Trichloroethane
Concen: 103.725 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

Tgt Ion: 97 Resp: 698469
Ion Ratio Lower Upper
97 100
99 64.4 51.2 76.8
61 44.3 35.9 53.9





#31

Carbon tetrachloride

Concen: 103.915 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

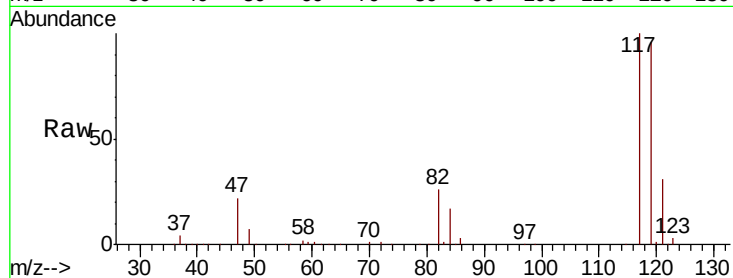
VSTD10032

Tot Ion:117 Resp: 583192

Ion Ratio Lower Upper

117 100

119 96.1 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.56

300000

250000

200000

150000

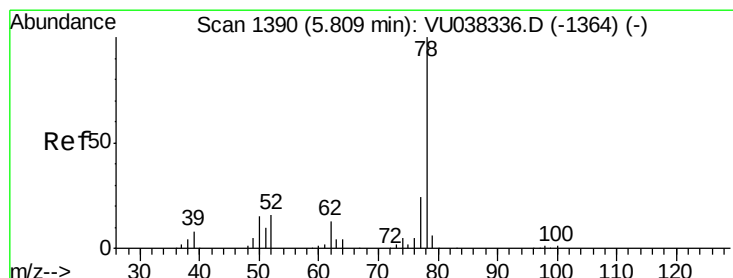
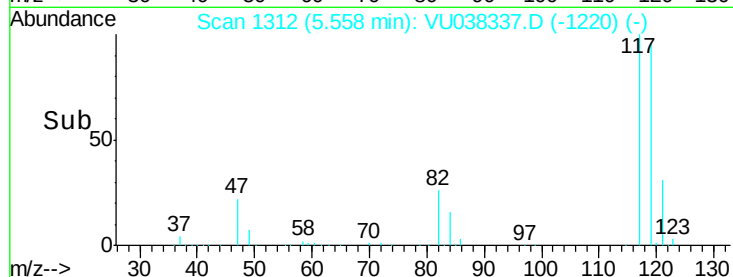
100000

50000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 102.651 ug/L

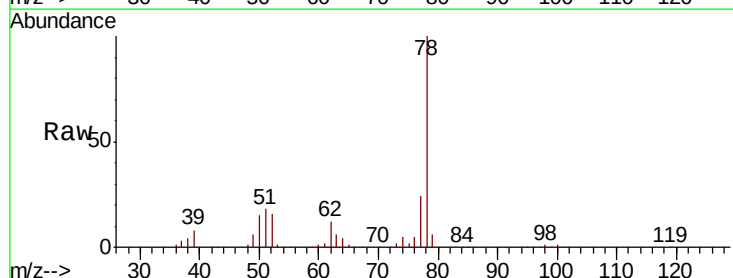
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Tgt Ion: 78 Resp: 1785354



Abundance Ion 78.00 (77.70 to 78.70): VU0

1000000

800000

600000

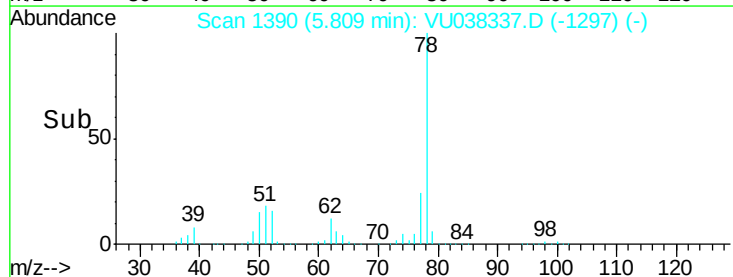
400000

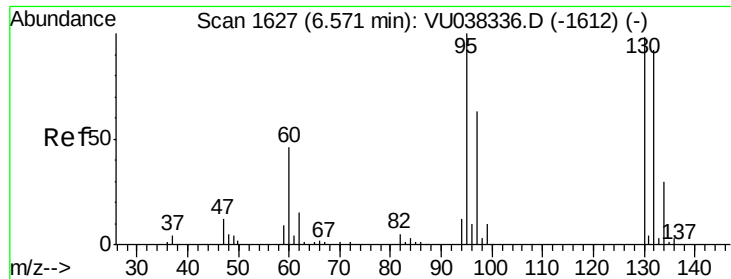
200000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 100.504 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

Tot Ion: 95 Resp: 447237

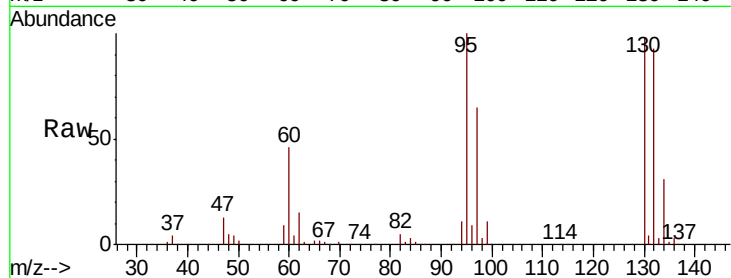
Ion Ratio Lower Upper

95 100

97 64.9 44.3 82.3

132 92.8 64.7 120.1

130 97.5 68.5 127.1

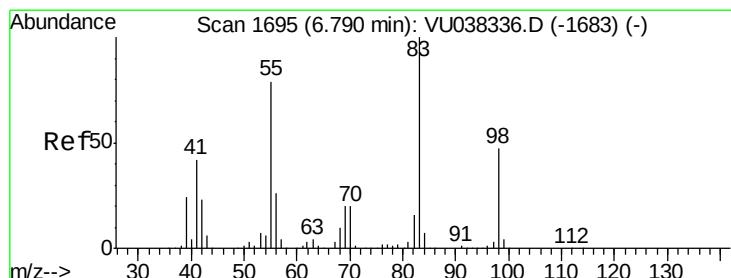
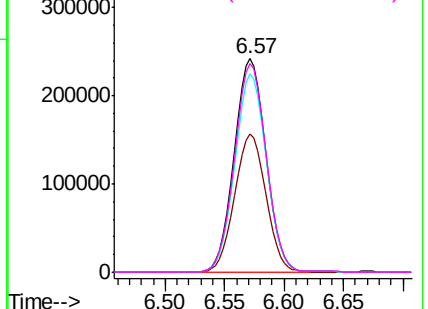
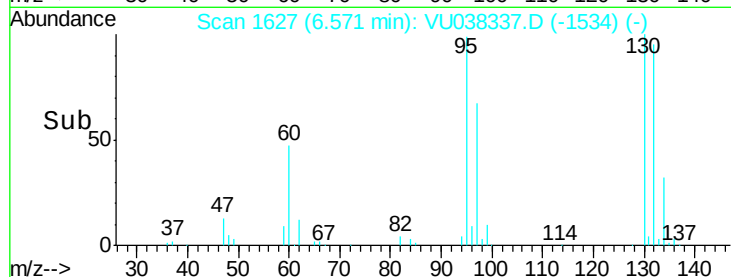


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 103.846 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

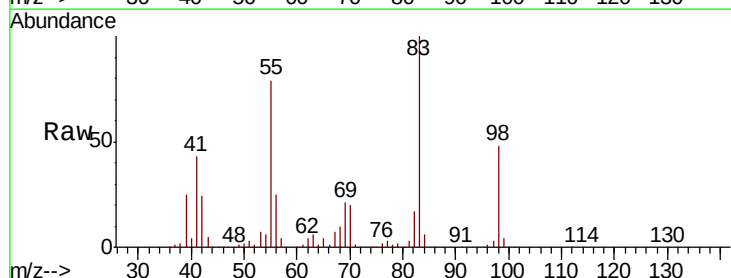
Tgt Ion: 83 Resp: 725530

Ion Ratio Lower Upper

83 100

55 79.5 63.0 94.4

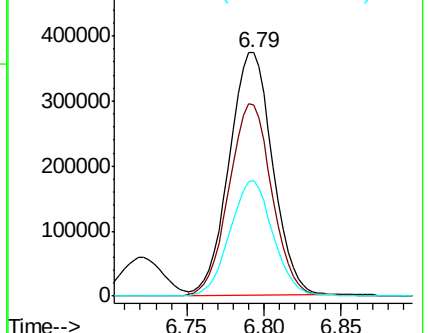
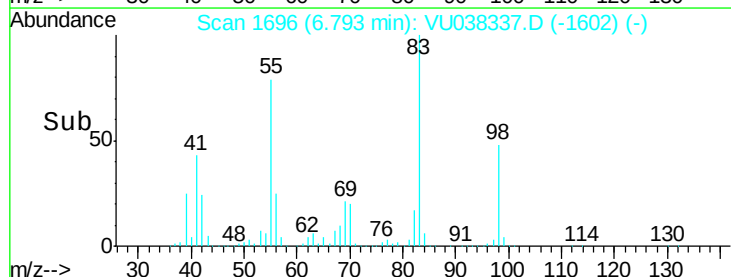
98 47.3 38.6 57.8

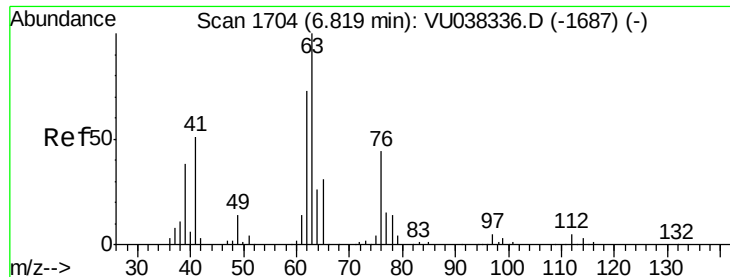


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

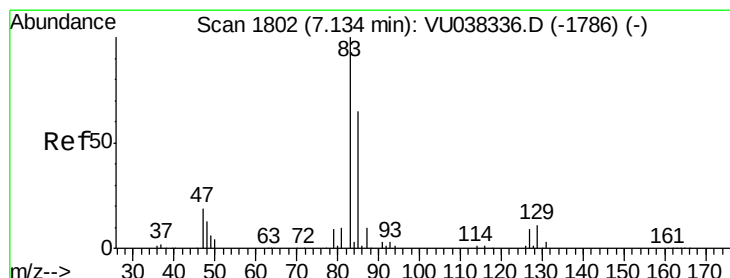
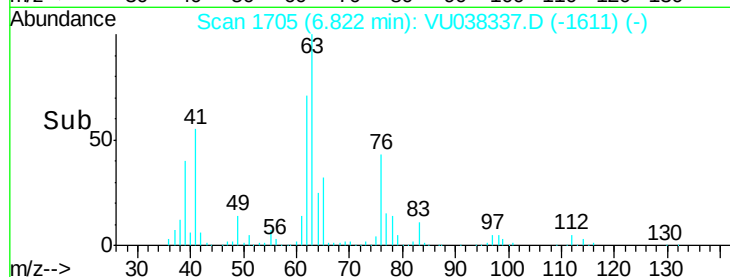
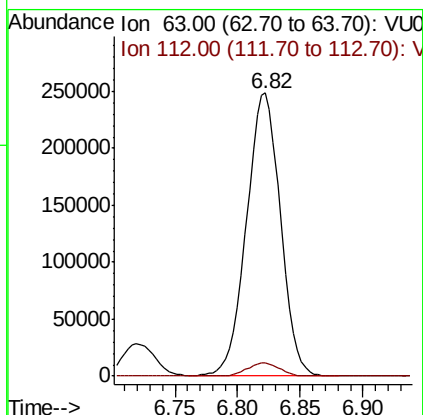
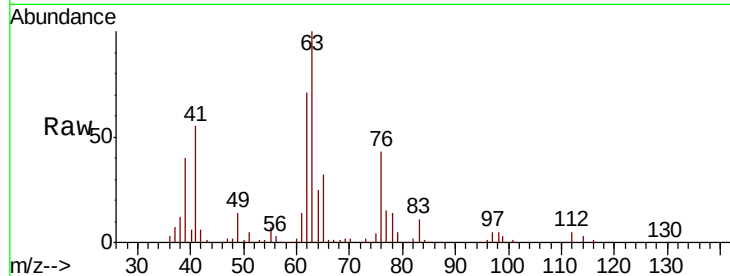




#37
 1,2-Dichloropropane
 Concen: 104.048 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU038337.D
 Acq: 28 May 2020 10:29

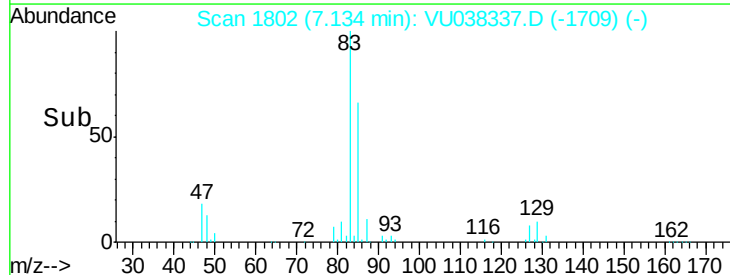
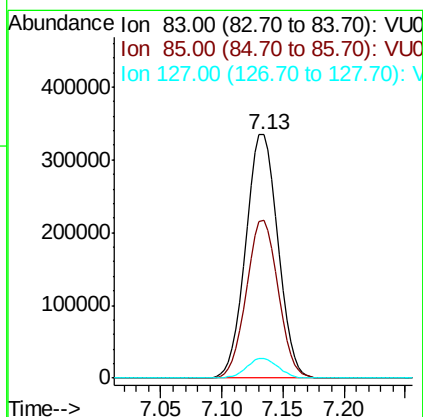
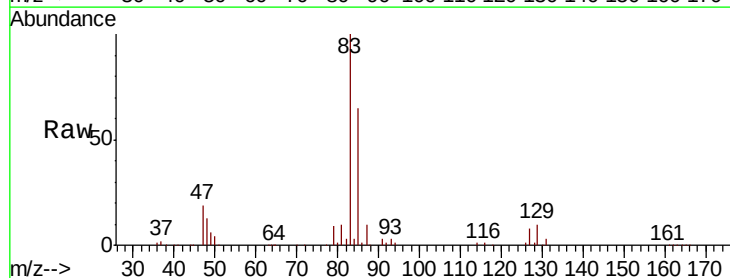
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD10032

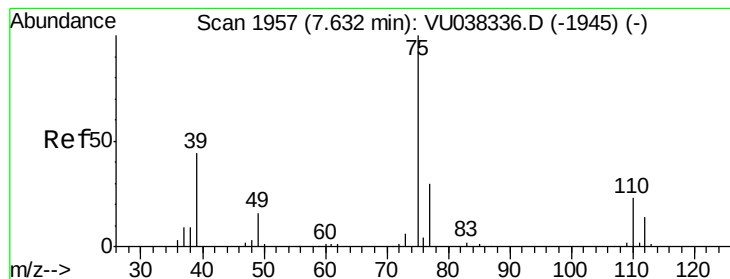
Tot Ion: 63 Resp: 469322
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.6 5.4



#38
 Bromodichloromethane
 Concen: 105.148 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VU038337.D
 Acq: 28 May 2020 10:29

Tgt Ion: 83 Resp: 607799
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.5 84.5
 127 8.3 7.0 10.4



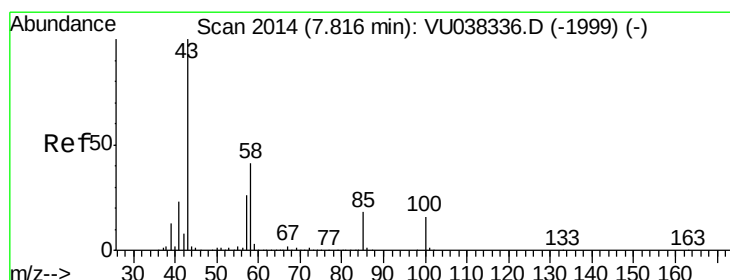
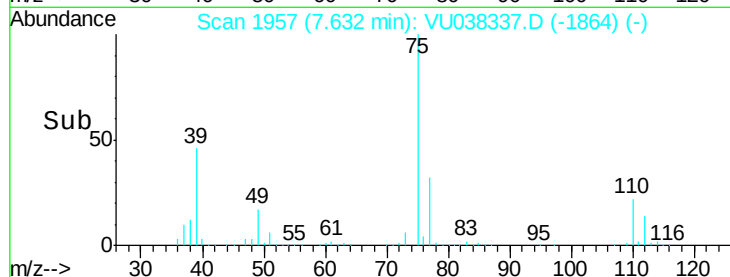
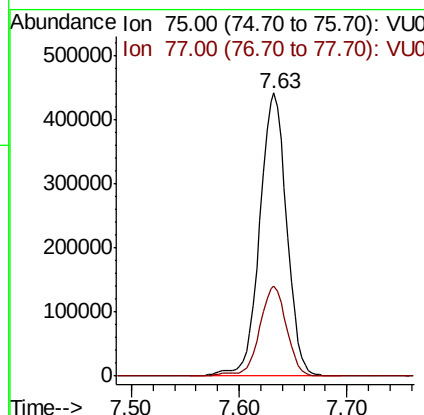
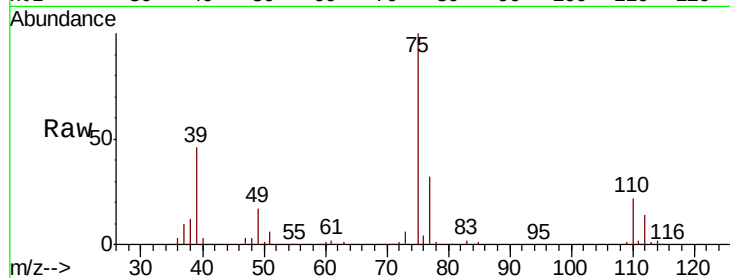


#39

cis-1,3-Dichloropropene
Concen: 106.765 ug/L
RT: 7.63 min Scan# 1957
Delta R.T. -0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

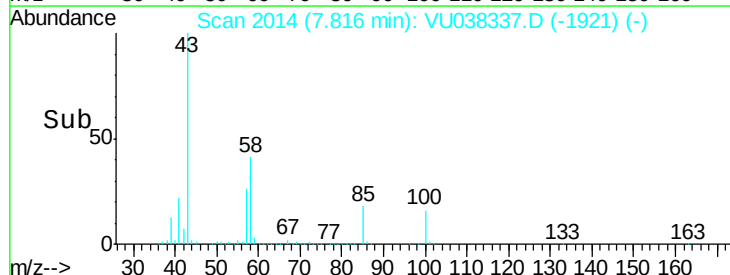
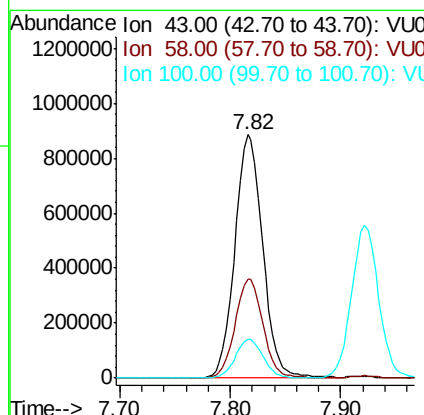
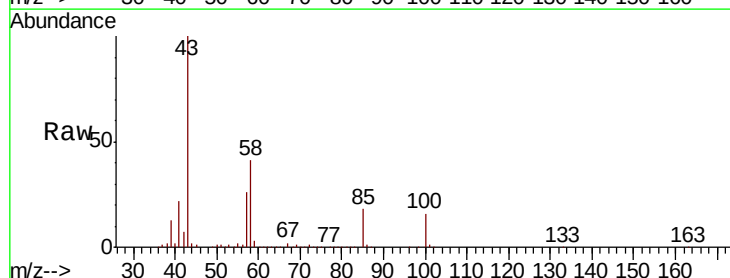
Tot Ion: 75 Resp: 766328
Ion Ratio Lower Upper
75 100
77 31.9 21.6 40.0

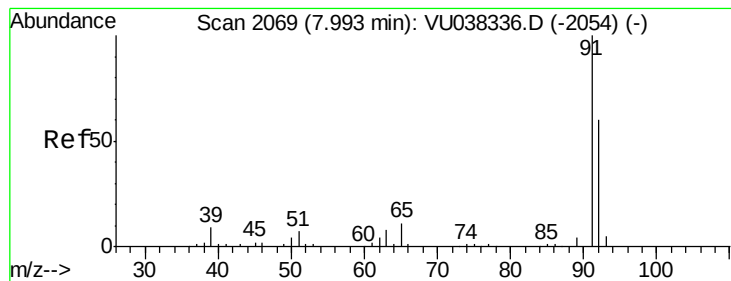


#40

4-Methyl-2-pentanone
Concen: 216.365 ug/L
RT: 7.82 min Scan# 2014
Delta R.T. -0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

Tgt Ion: 43 Resp: 1552106
Ion Ratio Lower Upper
43 100
58 40.8 32.6 48.8
100 16.0 12.9 19.3





#42

Toluene

Concen: 104.338 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

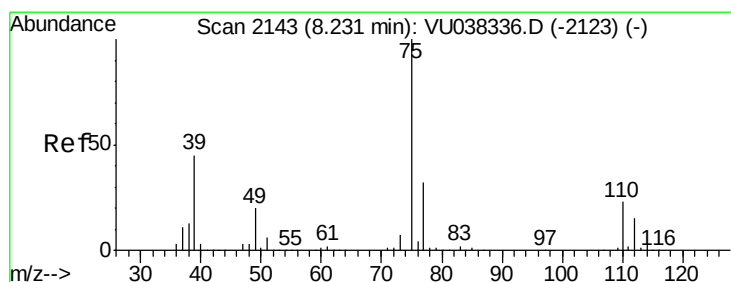
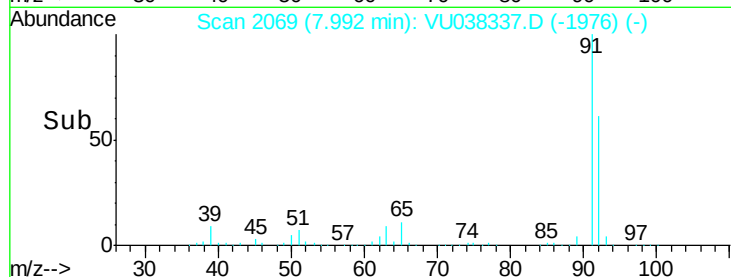
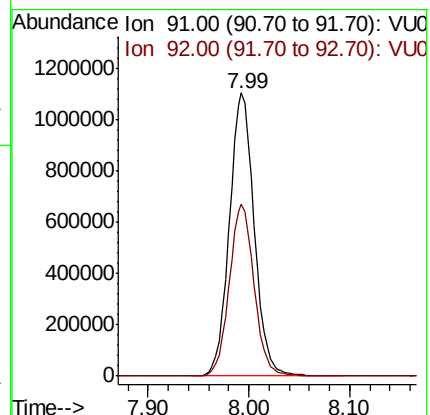
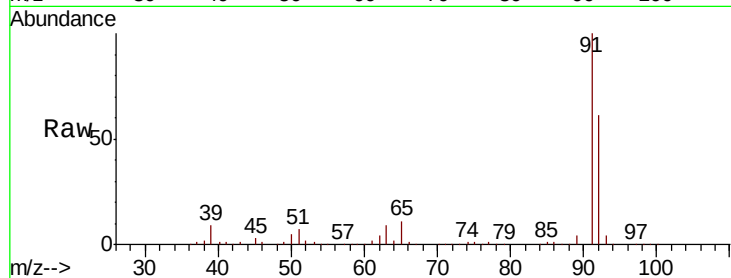
VSTD10032

Tot Ion: 91 Resp: 1905166

Ion Ratio Lower Upper

91 100

92 60.7 42.0 78.0



#44

trans-1,3-Dichloropropene

Concen: 108.982 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU038337.D

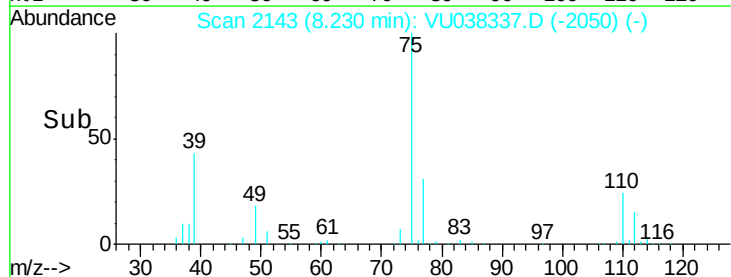
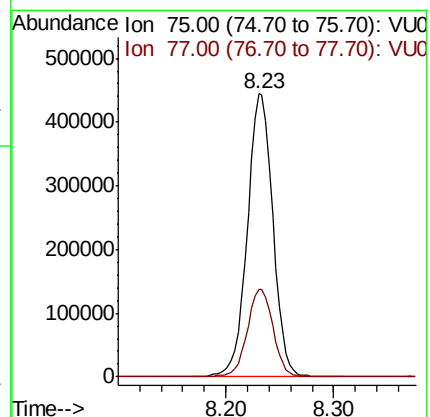
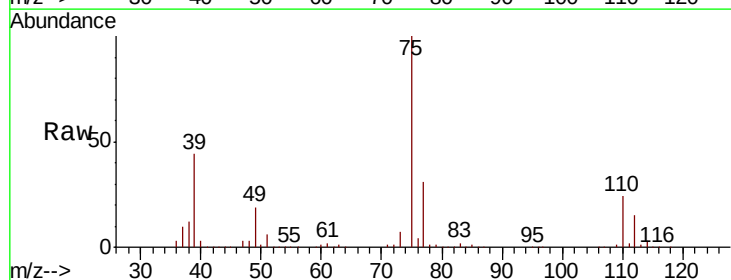
Acq: 28 May 2020 10:29

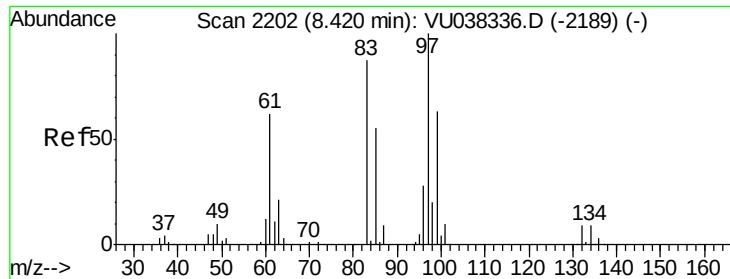
Tgt Ion: 75 Resp: 732229

Ion Ratio Lower Upper

75 100

77 31.1 22.1 41.1

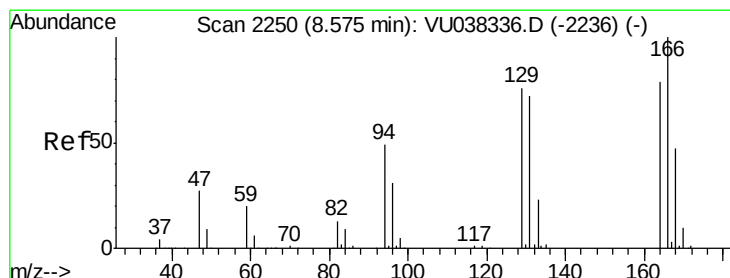
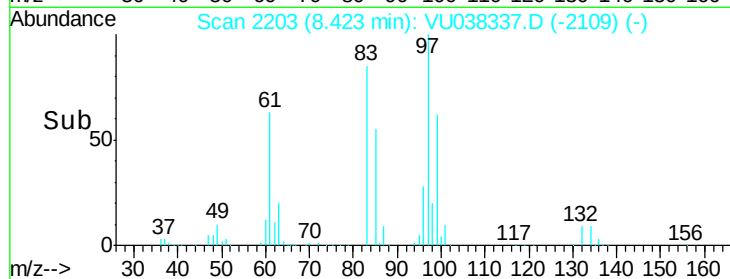
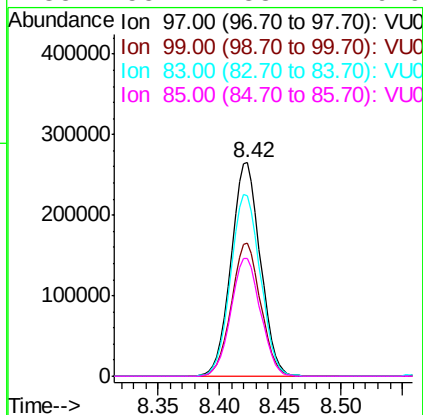
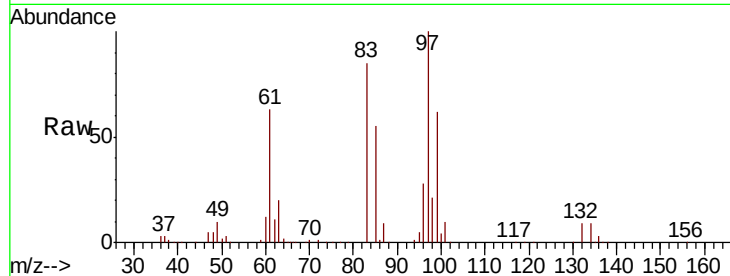




#45
 1,1,2-Trichloroethane
 Concen: 103.712 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU038337.D
 Acq: 28 May 2020 10:29

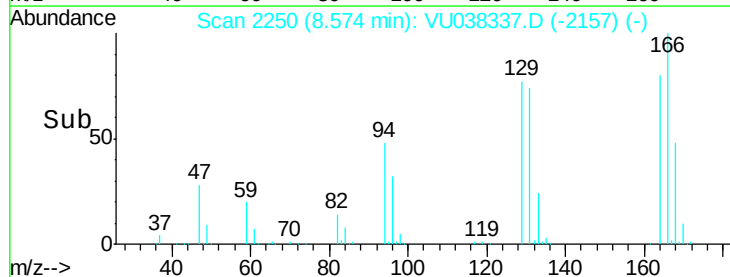
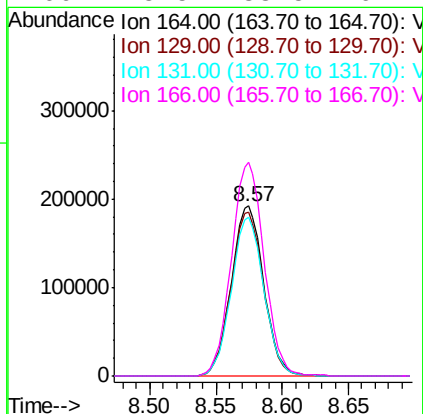
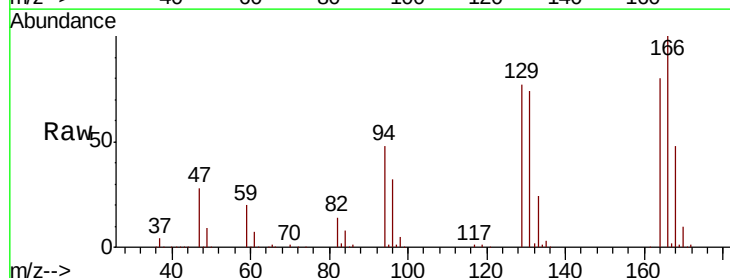
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

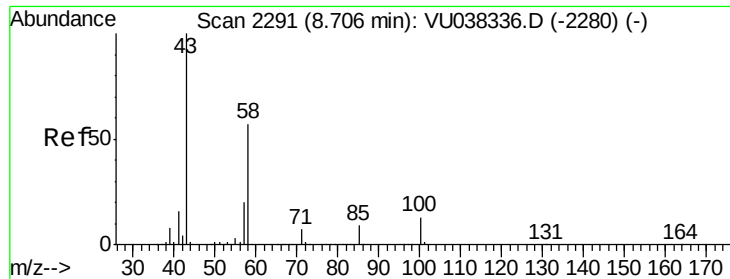
Tot Ion:	97	Resp:	443933
Ion	Ratio	Lower	Upper
97	100		
99	62.2	44.0	81.8
83	84.7	60.8	113.0
85	55.4	38.1	70.9



#46
 Tetrachloroethene
 Concen: 100.735 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU038337.D
 Acq: 28 May 2020 10:29

Tgt Ion:	164	Resp:	327716
Ion	Ratio	Lower	Upper
164	100		
129	96.2	67.2	124.8
131	93.0	63.4	117.8
166	125.5	88.5	164.4



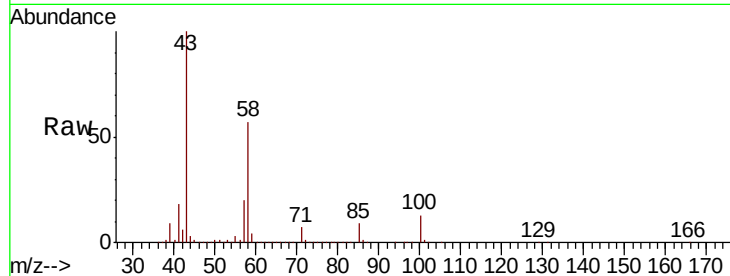


#48
2-Hexanone
Concen: 213.525 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

Tot Ion: 43 Resp: 1293272

Ion	Ratio	Lower	Upper
43	100		
58	57.1	45.5	68.3
57	20.2	16.3	24.5
100	13.1	10.5	15.7



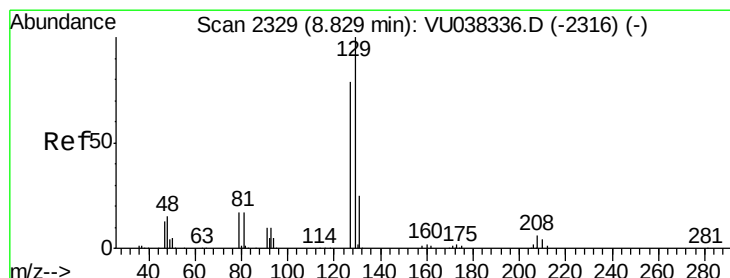
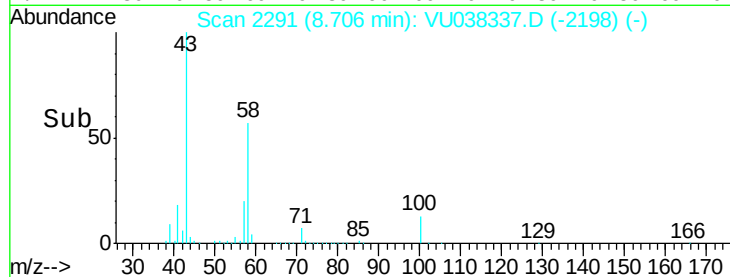
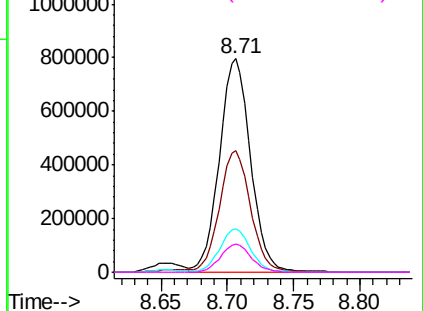
Abundance

Ion 43.00 (42.70 to 43.70): VU038337.D (-2198) (-)

Ion 58.00 (57.70 to 58.70): VU038337.D (-2198) (-)

Ion 57.00 (56.70 to 57.70): VU038337.D (-2198) (-)

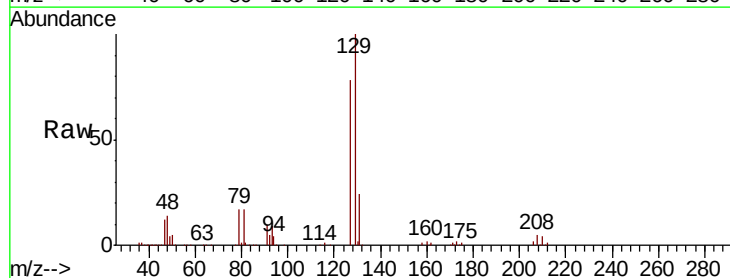
Ion 100.00 (99.70 to 100.70): VU038337.D (-2198) (-)



#49
Dibromochloromethane
Concen: 107.505 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU038337.D
Acq: 28 May 2020 10:29

Tgt Ion: 129 Resp: 465927

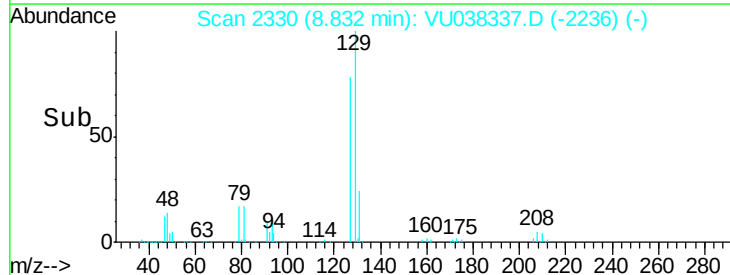
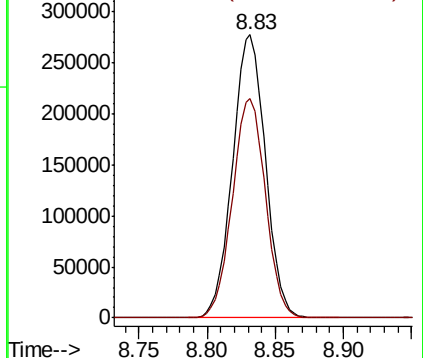
Ion	Ratio	Lower	Upper
129	100		
127	77.5	55.2	102.6

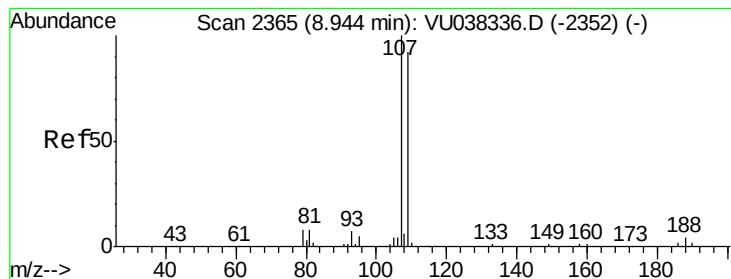


Abundance

Ion 129.00 (128.70 to 129.70): VU038337.D (-2236) (-)

Ion 127.00 (126.70 to 127.70): VU038337.D (-2236) (-)





#50

1,2-Dibromoethane

Concen: 103.541 ug/L

RT: 8.94 min Scan# 2365

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

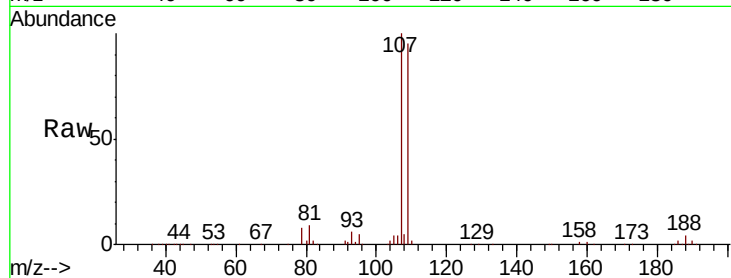
Tot Ion:107 Resp: 476383

Ion Ratio Lower Upper

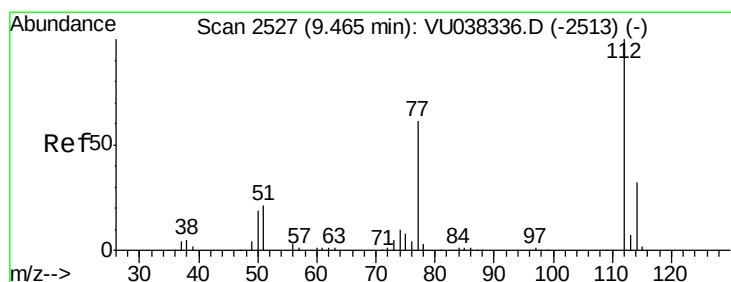
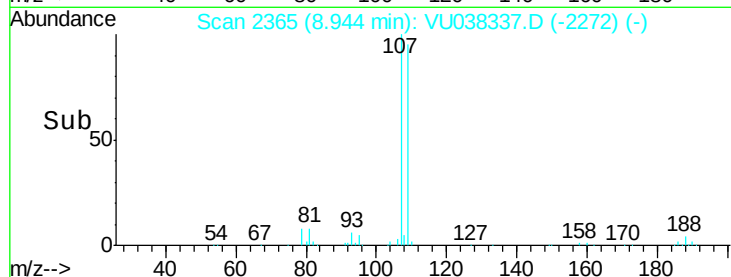
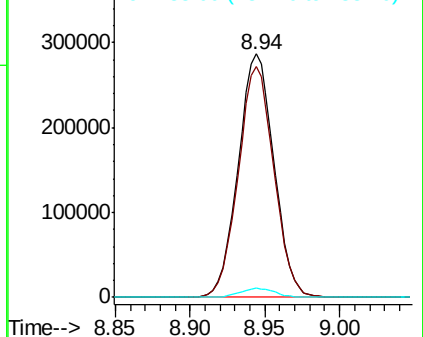
107 100

109 94.9 64.3 119.5

188 3.6 2.8 4.2



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: 102.130 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

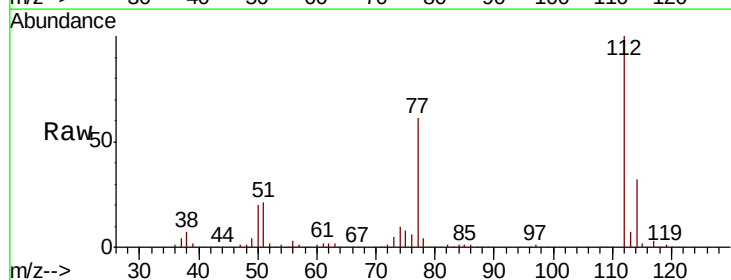
Tgt Ion:112 Resp: 1198511

Ion Ratio Lower Upper

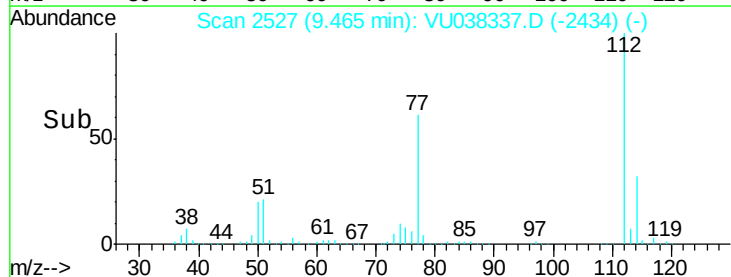
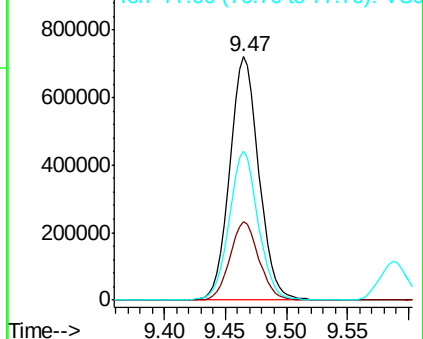
112 100

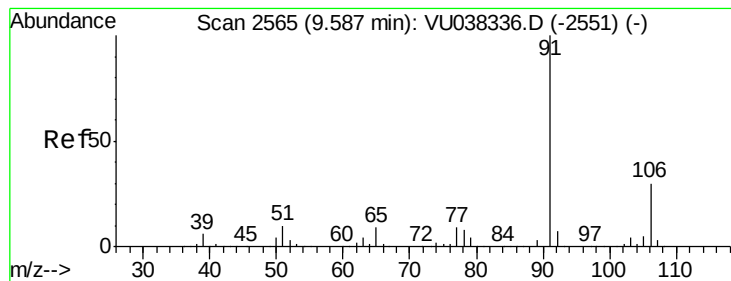
114 32.0 22.6 42.0

77 61.2 48.8 73.2



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: 105.988 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

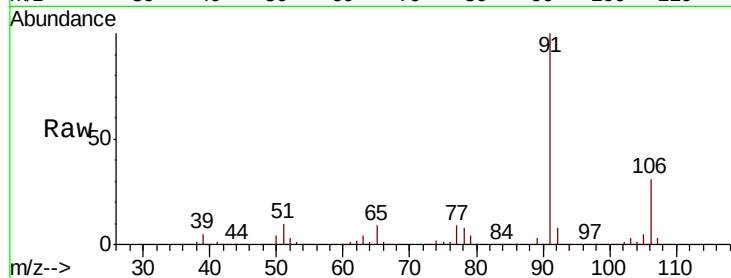
VSTD10032

Tot Ion: 91 Resp: 2168424

Ion Ratio Lower Upper

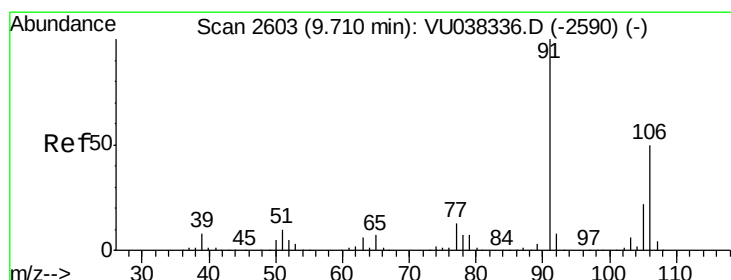
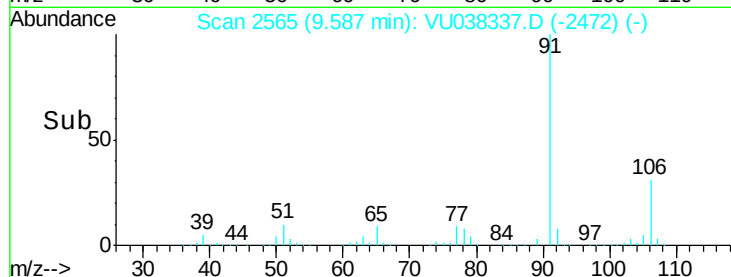
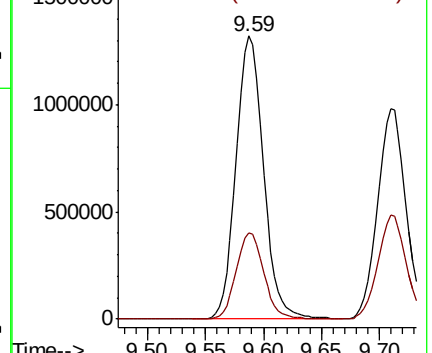
91 100

106 30.5 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 106.733 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038337.D

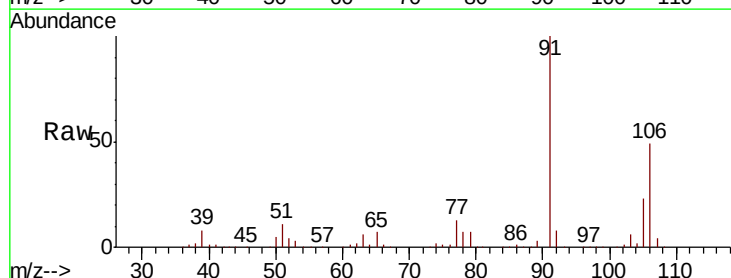
Acq: 28 May 2020 10:29

Tgt Ion:106 Resp: 835083

Ion Ratio Lower Upper

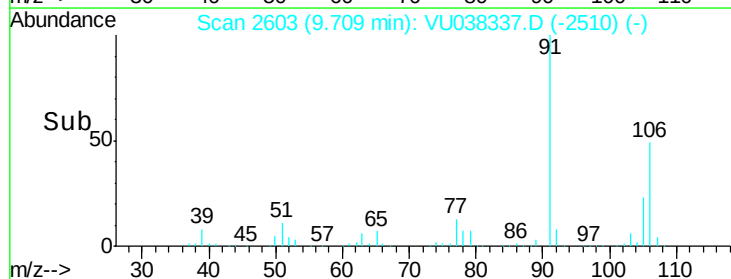
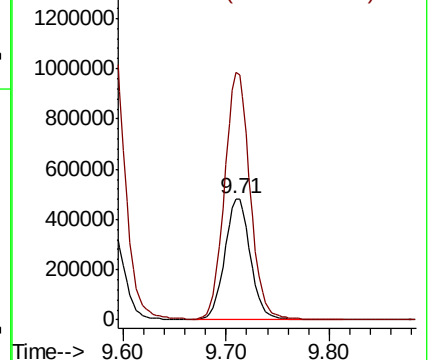
106 100

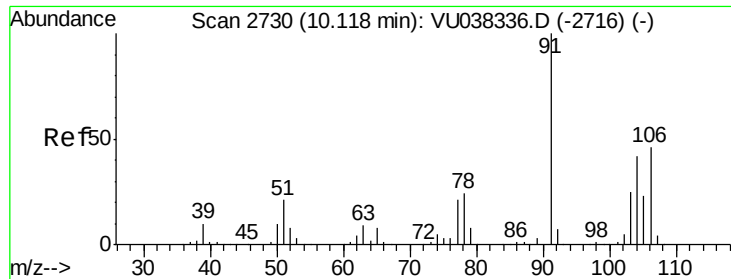
91 203.5 140.8 261.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#54

o-xylene

Concen: 106.740 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

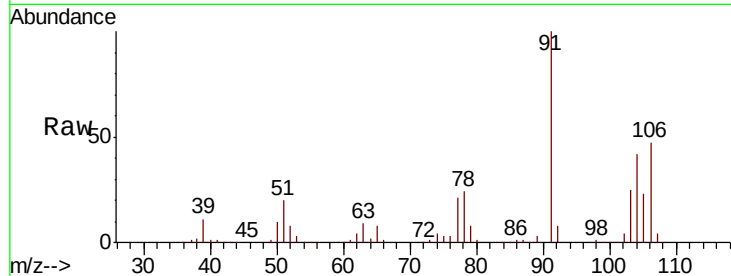
VSTD10032

Tot Ion:106 Resp: 811953

Ion Ratio Lower Upper

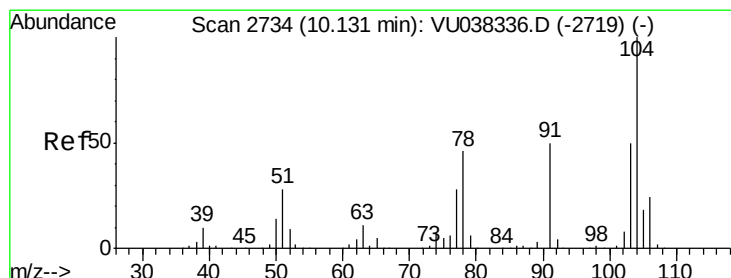
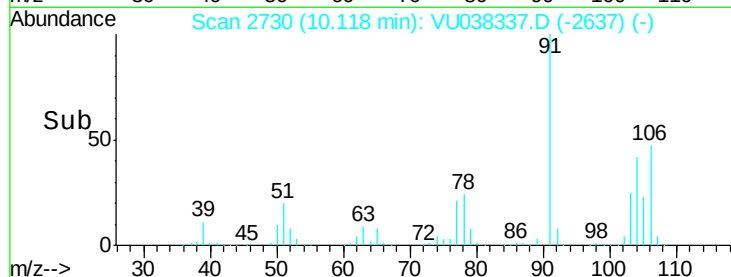
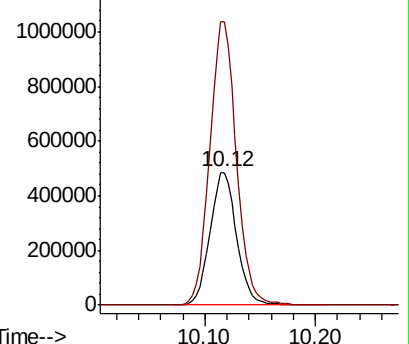
106 100

91 213.6 151.3 280.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 108.520 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU038337.D

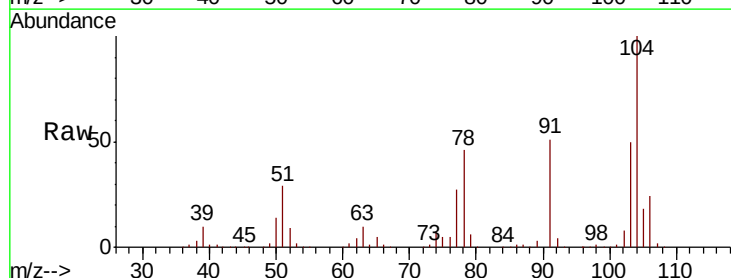
Acq: 28 May 2020 10:29

Tgt Ion:104 Resp: 1418776

Ion Ratio Lower Upper

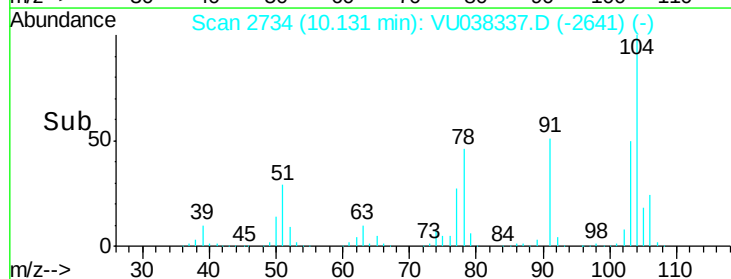
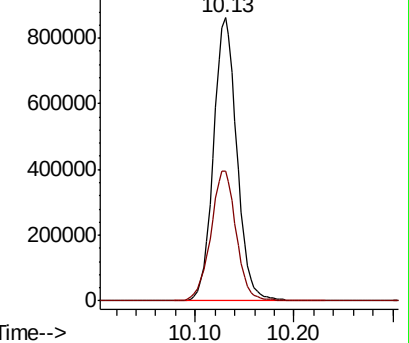
104 100

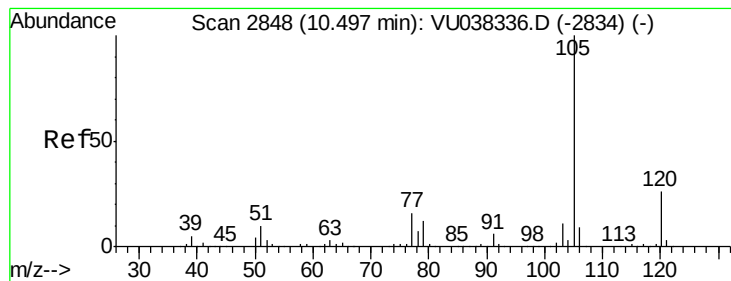
78 45.9 32.1 59.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 106.995 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

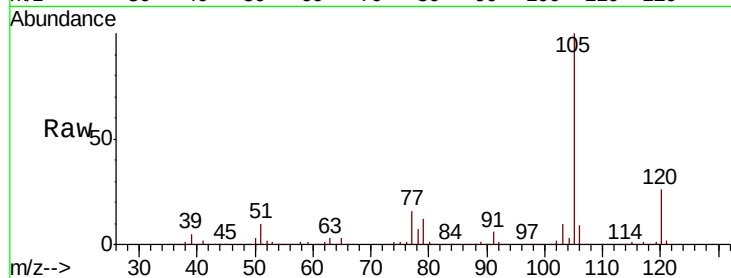
MSVOA_U

ClientSampleId :

VSTD10032

Tot Ion:105 Resp: 2126915

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.6	31.0
77	15.8	12.8	19.2

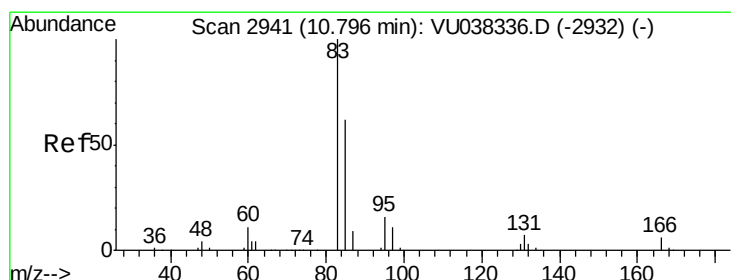
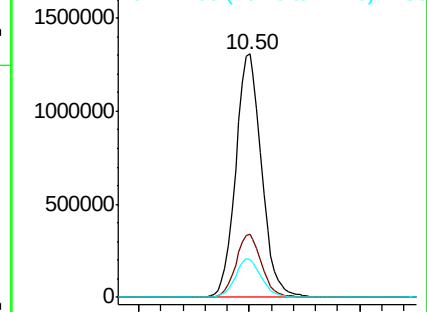
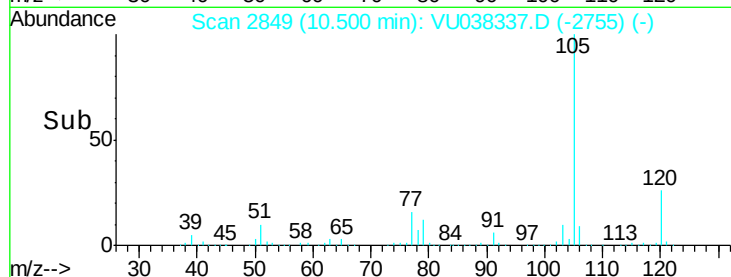


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 103.967 ug/L

RT: 10.80 min Scan# 2941

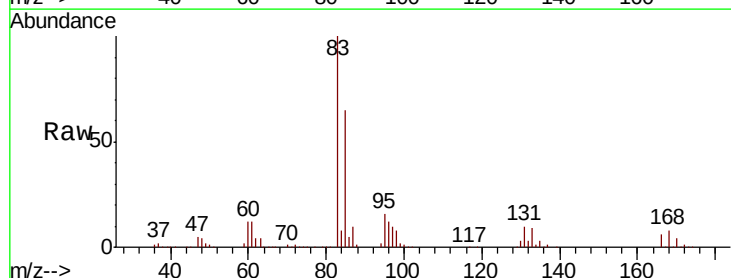
Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Tgt Ion: 83 Resp: 761572

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	9.5	7.3	10.9

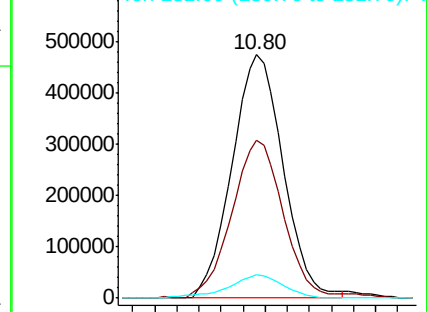
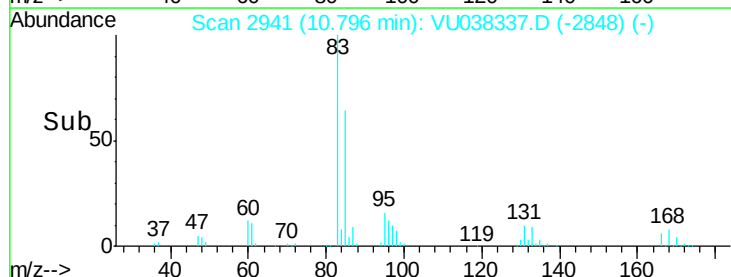


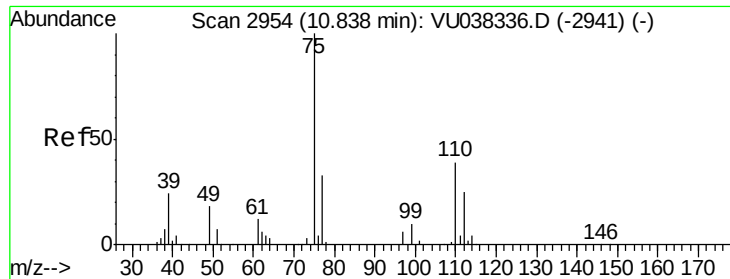
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 104.098 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

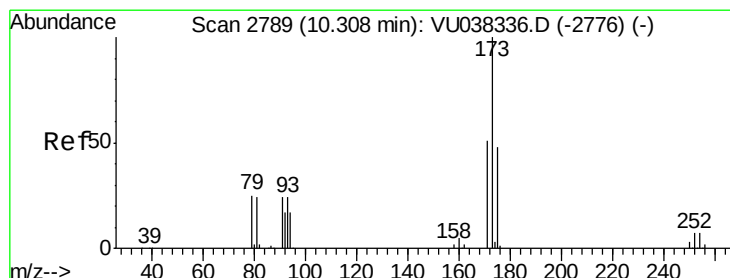
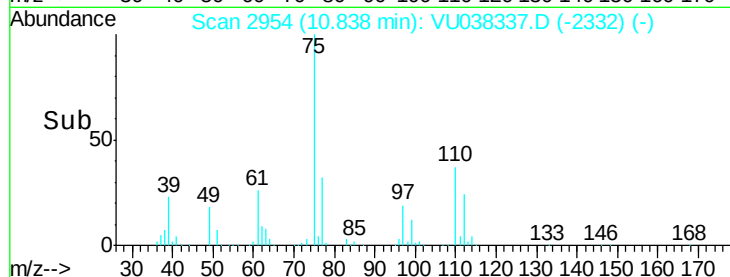
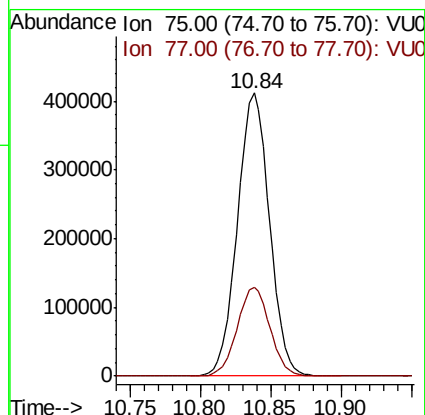
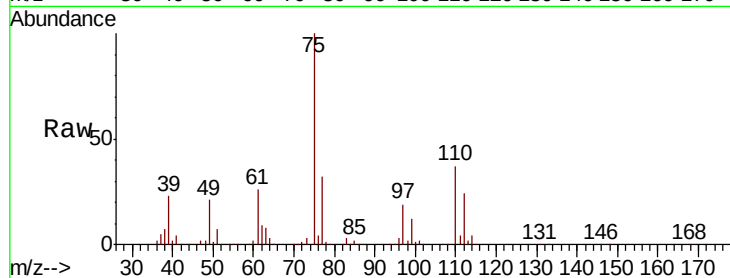
VSTD10032

Tot Ion: 75 Resp: 656610

Ion Ratio Lower Upper

75 100

77 31.9 25.8 38.8



#61

Bromoform

Concen: 106.952 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

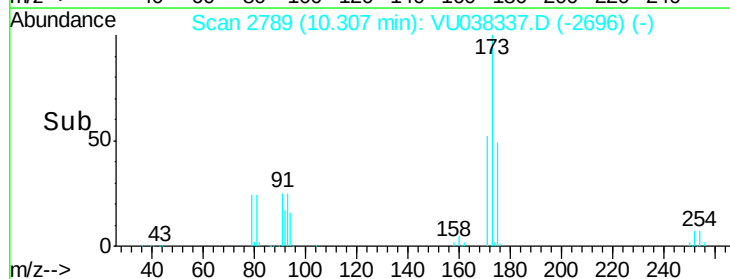
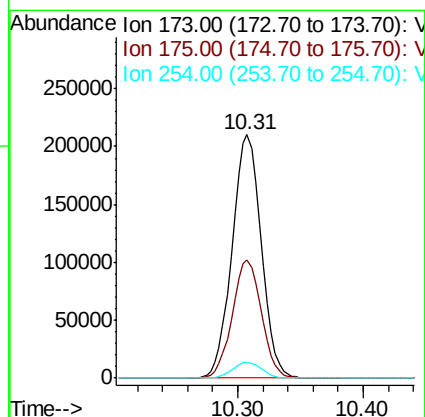
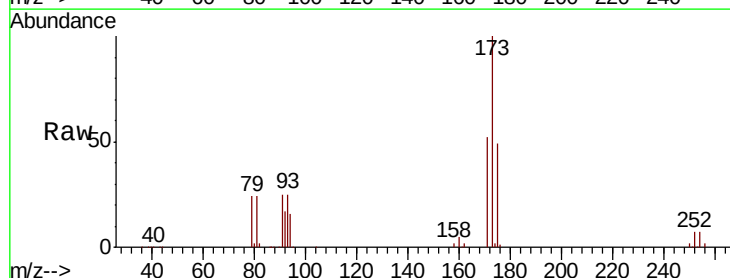
Tgt Ion: 173 Resp: 338980

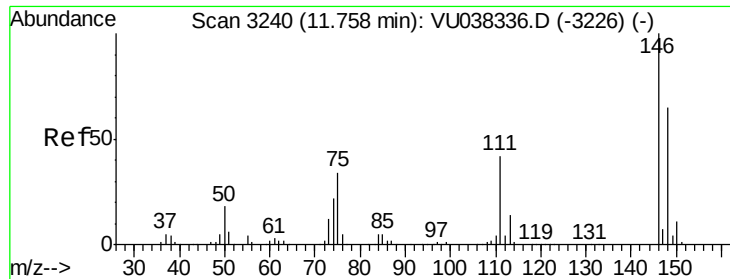
Ion Ratio Lower Upper

173 100

175 48.5 39.0 58.4

254 6.6 5.3 7.9





#62

1,3-Dichlorobenzene

Concen: 103.329 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

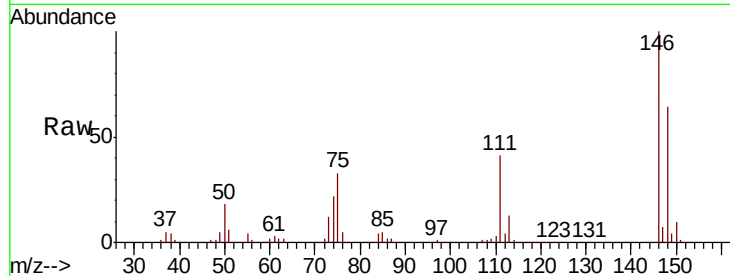
Tot Ion:146 Resp: 952983

Ion Ratio Lower Upper

146 100

111 41.1 29.4 54.6

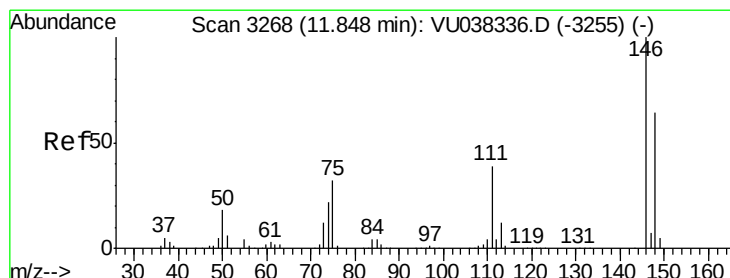
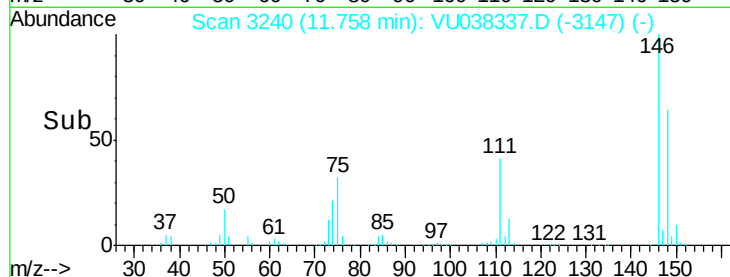
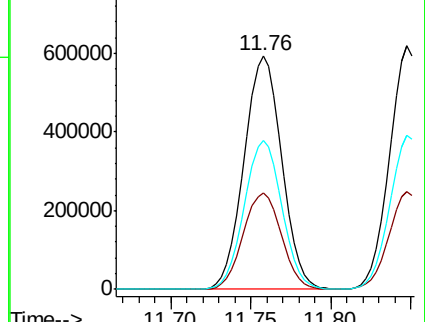
148 64.0 45.8 85.0



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: 102.316 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

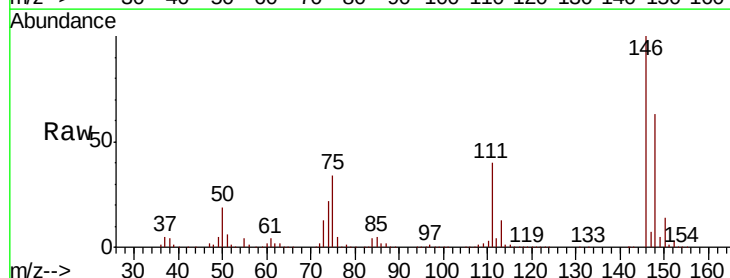
Tgt Ion:146 Resp: 959164

Ion Ratio Lower Upper

146 100

111 40.3 27.7 51.5

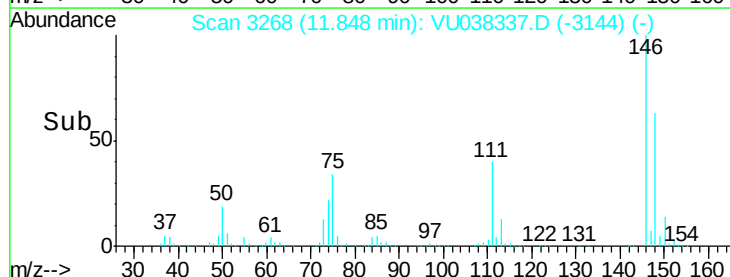
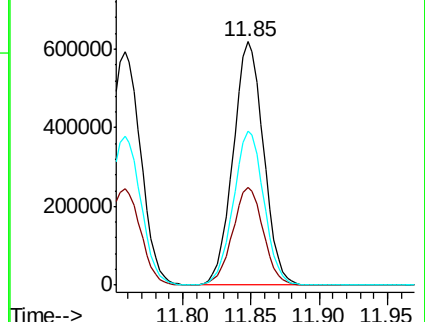
148 63.0 44.7 83.1

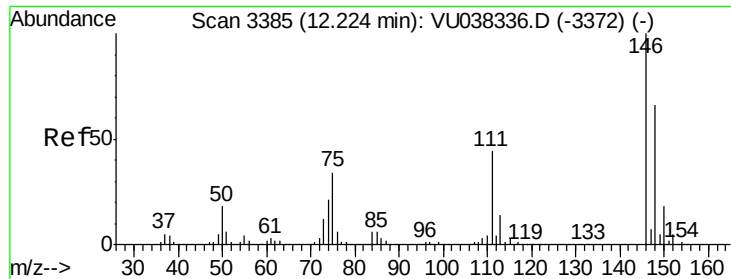


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

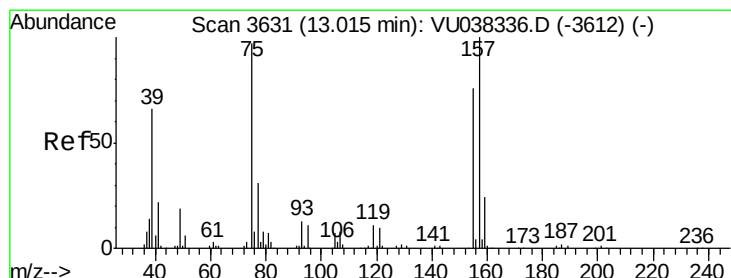
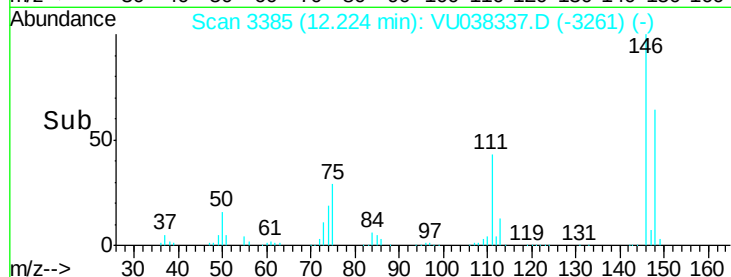
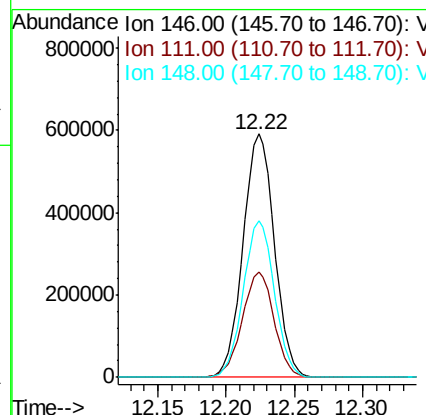
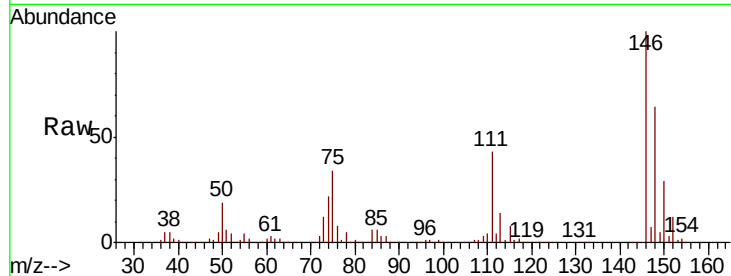




#65
 1,2-Dichlorobenzene
 Concen: 103.192 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. -0.00 min
 Lab File: VU038337.D
 Acq: 28 May 2020 10:29

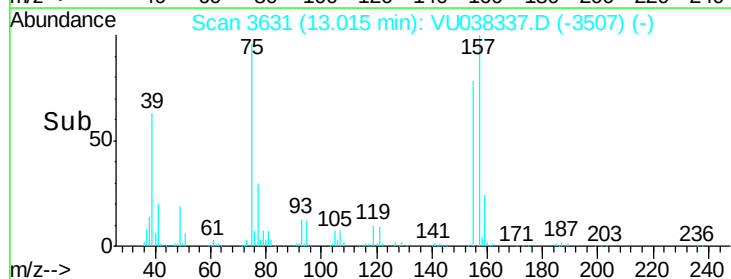
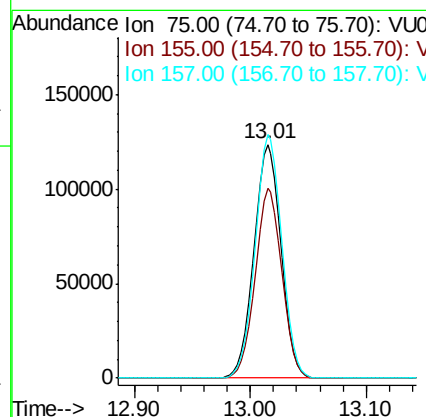
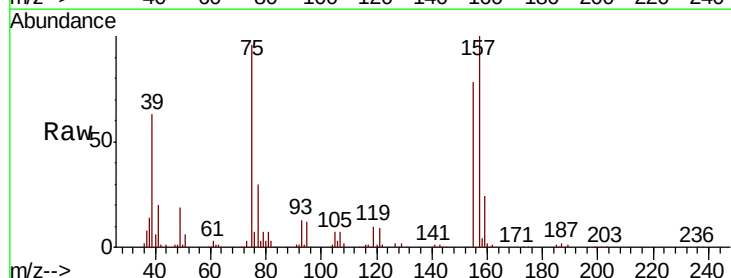
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

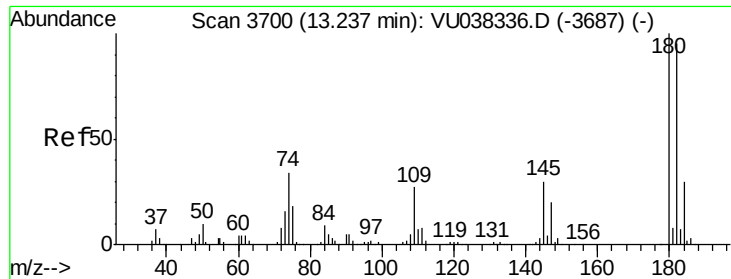
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	35.3	52.9
148	64.4	52.5	78.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 107.913 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU038337.D
 Acq: 28 May 2020 10:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.5	63.1	94.7
157	104.2	82.7	124.1

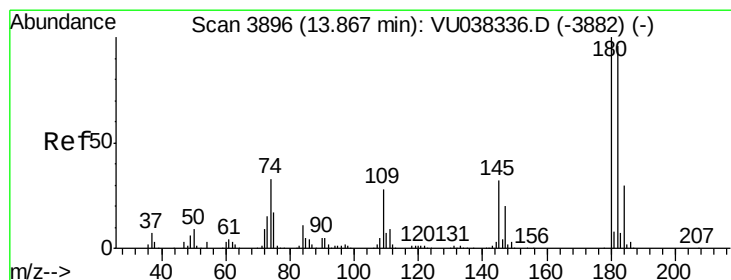
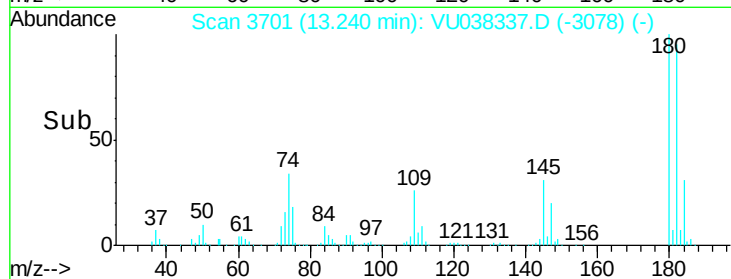
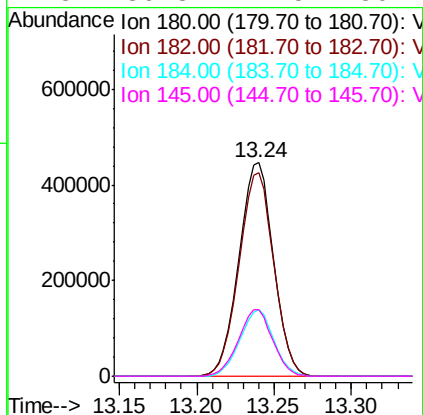
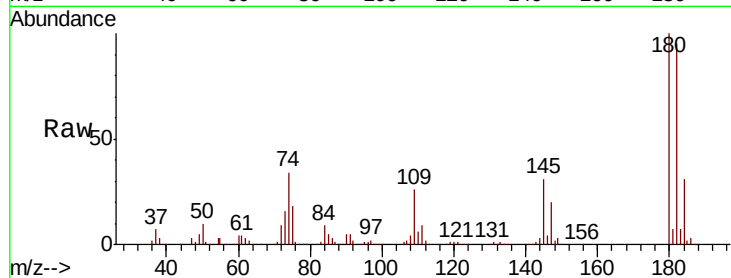




#67
 1,3,5-Trichlorobenzene
 Concen: 105.752 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU038337.D
 Acq: 28 May 2020 10:29

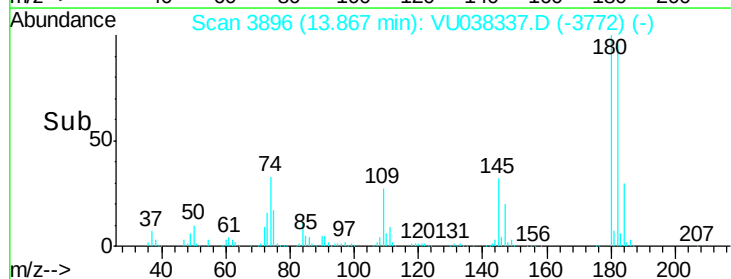
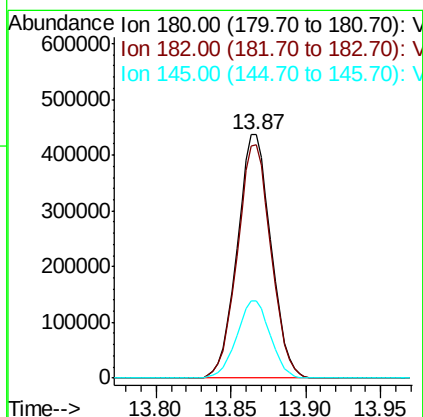
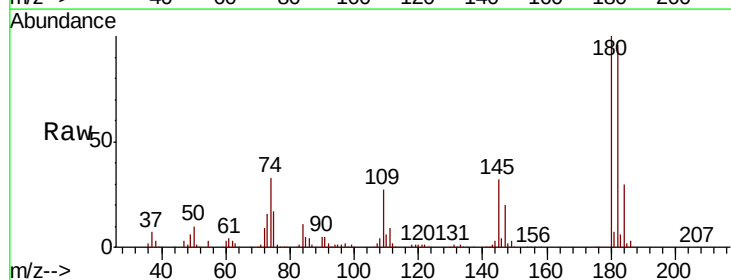
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

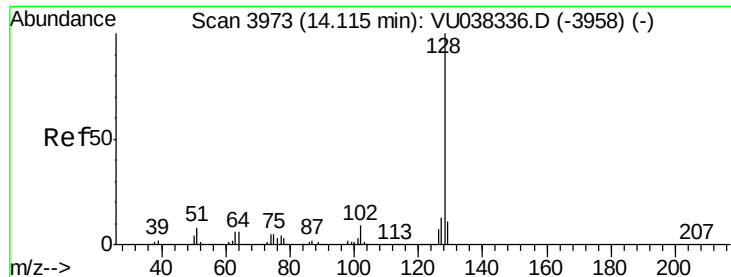
Tot Ion:180	Resp:	694128
Ion	Ratio	Lower Upper
180	100	
182	95.8	77.4 116.2
184	30.6	24.3 36.5
145	30.8	24.5 36.7



#68
 1,2,4-trichlorobenzene
 Concen: 108.714 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU038337.D
 Acq: 28 May 2020 10:29

Tgt Ion:180	Resp:	684389
Ion	Ratio	Lower Upper
180	100	
182	95.4	77.1 115.7
145	31.7	25.8 38.8





#69

Naphthalene

Concen: 115.612 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Instrument :

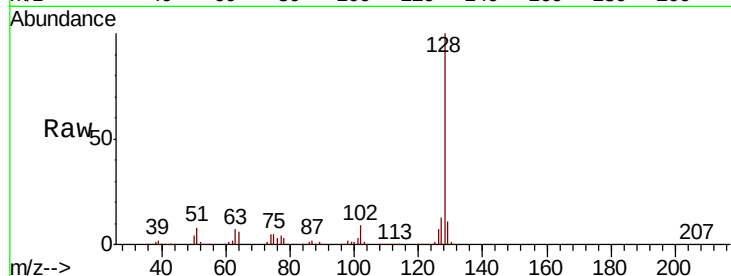
MSVOA_U

ClientSampleId :

VSTD10032

Tot Ion:128 Resp: 2605913

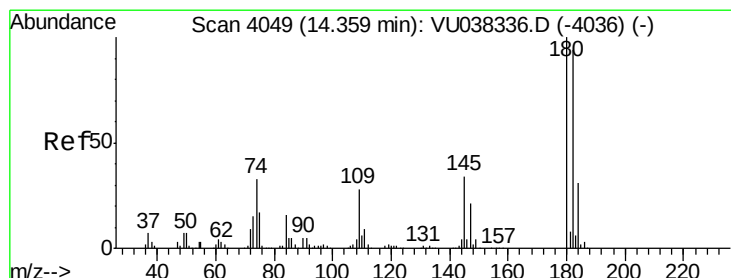
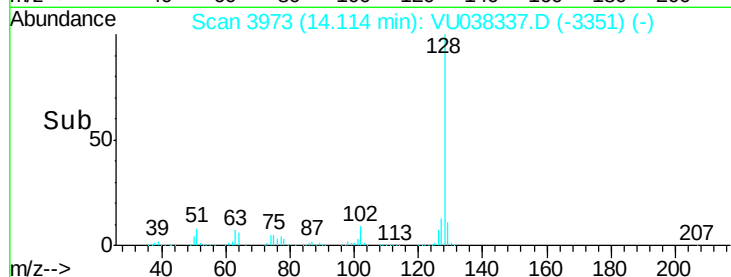
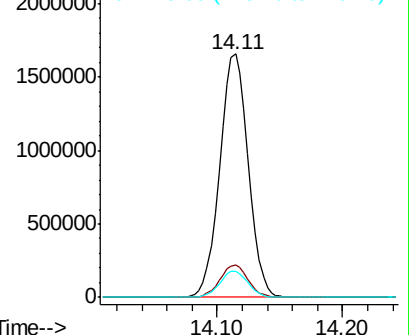
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	10.8	8.6	12.8



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: 110.917 ug/L

RT: 14.36 min Scan# 4049

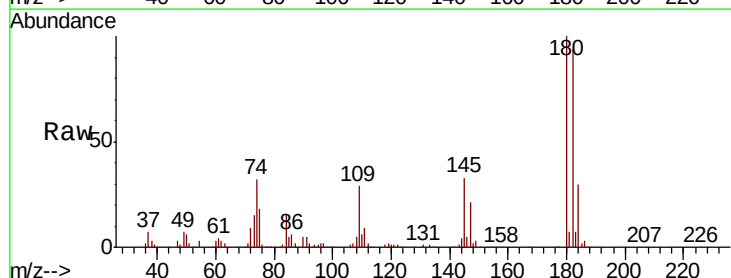
Delta R.T. -0.00 min

Lab File: VU038337.D

Acq: 28 May 2020 10:29

Tgt Ion:180 Resp: 697543

Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.5	113.3
145	32.9	26.6	40.0



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

