

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U062220\
 Data File : VU039032.D
 Acq On : 23 Jun 2020 02:17
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Quant Time: Jun 23 03:53:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR062220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 23 01:25:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	238273	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	234437	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	117241	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	96102	4.91	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.20%
7) Chloroethane-d5	1.93	69	76144	5.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.60%
11) 1,1-Dichloroethene-d2	2.59	63	175941	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.60%
20) 2-Butanone-d5	4.66	46	322522	50.61	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.22%
24) Chloroform-d	5.10	84	170545	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
26) 1,2-Dichloroethane-d4	5.74	65	113874	5.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.80%
32) Benzene-d6	5.76	84	352920	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.80%
36) 1,2-Dichloropropane-d6	6.72	67	117692	5.16	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.20%
41) Toluene-d8	7.92	98	288645	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
43) trans-1,3-Dichloropropene-	8.20	79	50112	5.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.20%
46) 2-Hexanone-d5	8.65	63	261110	54.70	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.40%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	108632	5.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.60%
64) 1,2-Dichlorobenzene-d4	12.20	152	113204	4.96	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	101630	4.404 ug/L	99
3) Chloromethane	1.53	50	79557	6.015 ug/L	97
5) Vinyl chloride	1.62	62	121613	4.999 ug/L #	81
6) Bromomethane	1.87	94	41942	7.231 ug/L	99
8) Chloroethane	1.95	64	75404	5.632 ug/L	97
9) Trichlorofluoromethane	2.15	101	141107	4.574 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	76988	4.239 ug/L	98
12) 1,1-Dichloroethene	2.60	96	81835	4.750 ug/L	96
13) Acetone	2.66	43	206095	51.264 ug/L	99
14) Carbon disulfide	2.82	76	278524	4.672 ug/L	99
15) Methyl Acetate	2.98	43	56570	5.529 ug/L	100
16) Methylene chloride	3.07	84	110560	5.279 ug/L	98
17) Methyl tert-butyl Ether	3.40	73	226715	5.440 ug/L	100
18) trans-1,2-Dichloroethene	3.38	96	90404	4.924 ug/L	99
19) 1,1-Dichloroethane	3.91	63	190683	5.243 ug/L	97
21) 2-Butanone	4.75	43	350551	54.076 ug/L	100
22) cis-1,2-Dichloroethene	4.70	96	103431	5.253 ug/L	98

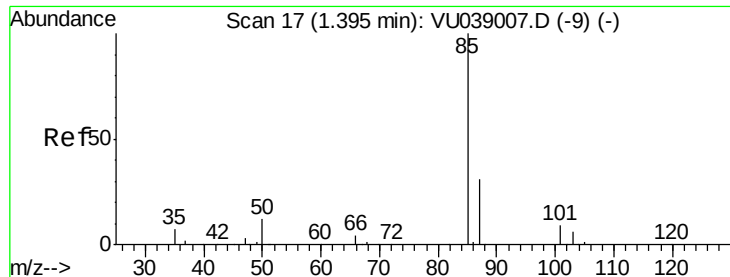
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062220\
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 QLast Update : Tue Jun 23 01:25:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	48790	5.318	ug/L	97
25) Chloroform	5.12	83	210419	5.574	ug/L	98
27) 1,2-Dichloroethane	5.83	62	138486	5.451	ug/L	98
29) 1,1,1-Trichloroethane	5.35	97	148942	4.975	ug/L	99
30) Cyclohexane	5.42	56	117247	3.971	ug/L	99
31) Carbon tetrachloride	5.56	117	115887	4.636	ug/L	99
33) Benzene	5.81	78	401406	5.302	ug/L	100
34) Trichloroethene	6.57	95	90434	4.786	ug/L	98
35) Methylcyclohexane	6.79	83	109054	3.810	ug/L	97
37) 1,2-Dichloropropane	6.82	63	112472	5.525	ug/L	98
38) Bromodichloromethane	7.13	83	137121	5.455	ug/L	95
39) cis-1,3-Dichloropropene	7.63	75	146275	5.032	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	828987	55.710	ug/L	100
42) Toluene	7.99	91	381854	5.020	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	137940	5.293	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	81525	5.440	ug/L	99
47) Tetrachloroethene	8.57	164	58058	4.364	ug/L	94
48) 2-Hexanone	8.71	43	627428	55.707	ug/L	99
49) Dibromochloromethane	8.83	129	92005	5.565	ug/L	96
50) 1,2-Dibromoethane	8.94	107	77684	5.478	ug/L #	100
51) Chlorobenzene	9.47	112	235744	4.851	ug/L	99
52) Ethylbenzene	9.59	91	369292	4.529	ug/L	99
53) m,p-Xylene	9.71	106	144213	4.677	ug/L	100
54) o-Xylene	10.11	106	141295	4.821	ug/L	97
55) Styrene	10.13	104	258322	5.124	ug/L	99
56) Isopropylbenzene	10.50	105	335699	4.326	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	106662	5.374	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	82418	5.499	ug/L	100
61) Bromoform	10.31	173	50507	5.534	ug/L	98
62) 1,3-Dichlorobenzene	11.76	146	176844	4.734	ug/L	97
63) 1,4-Dichlorobenzene	11.85	146	182043	4.748	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	177187	4.880	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	18062	5.501	ug/L	85
67) 1,3,5-Trichlorobenzene	13.24	180	119387	4.442	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	105034	4.551	ug/L	99
69) Naphthalene	14.11	128	223890	4.896	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	104644	4.831	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.404 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

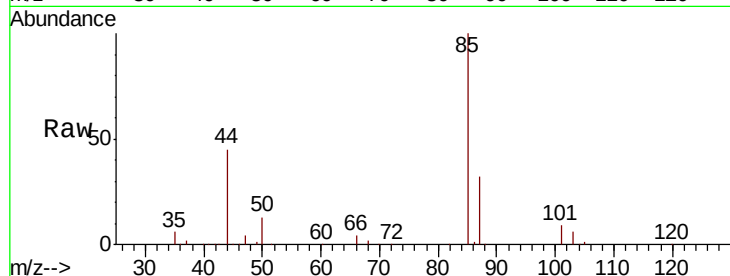
VSTD00511

Tot Ion: 85 Resp: 101630

Ion Ratio Lower Upper

85 100

87 31.8 25.0 37.6



Abundance Ion 85.00 (84.70 to 85.70): VU039007.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU039007.D (-9) (-)

1.39

100000

80000

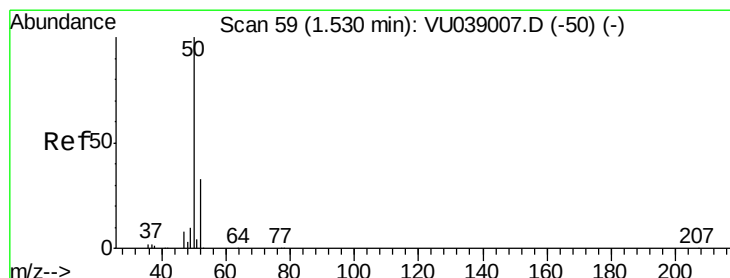
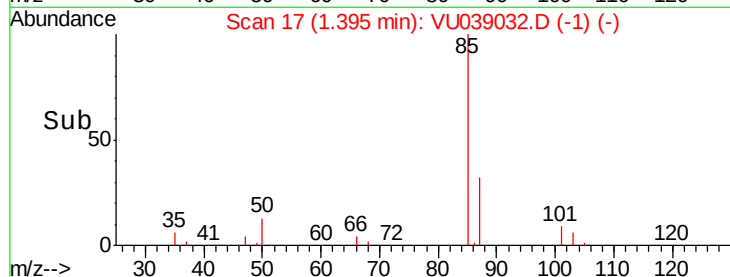
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 6.015 ug/L

RT: 1.53 min Scan# 59

Delta R.T. 0.00 min

Lab File: VU039032.D

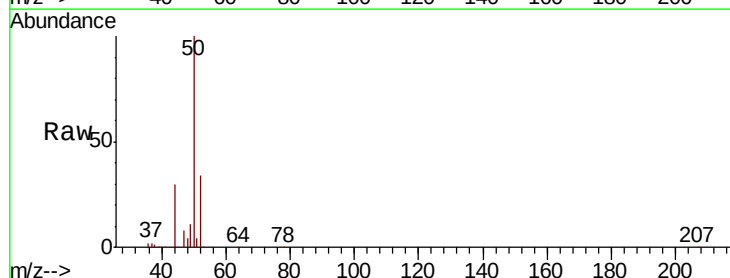
Acq: 23 Jun 2020 02:17

Tgt Ion: 50 Resp: 79557

Ion Ratio Lower Upper

50 100

52 34.3 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU039007.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU039007.D (-50) (-)

1.53

80000

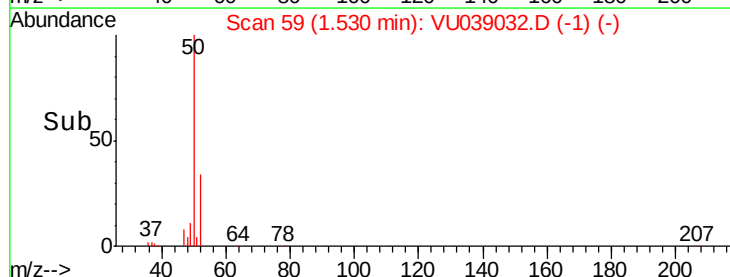
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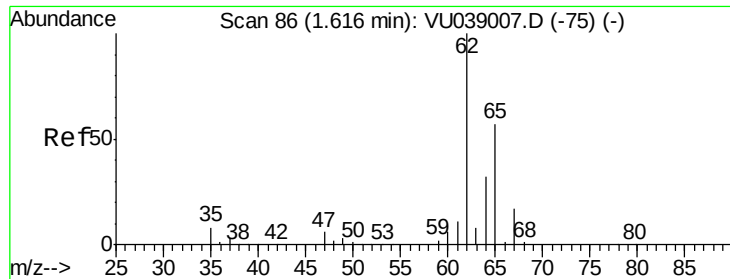
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 4.999 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

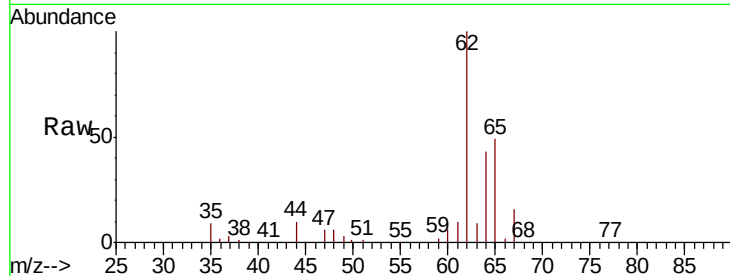
VSTD00511

Tot Ion: 62 Resp: 121613

Ion Ratio Lower Upper

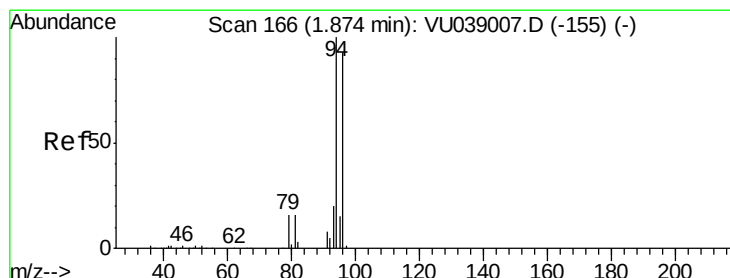
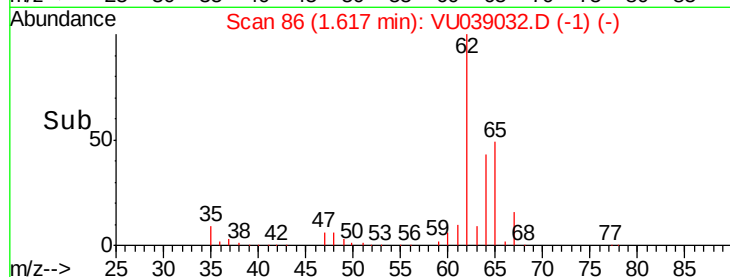
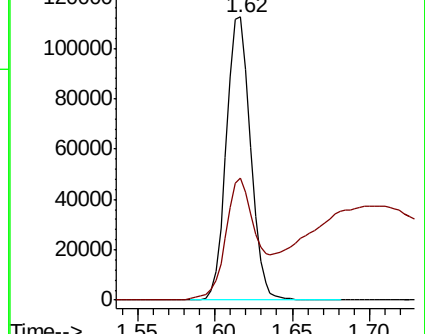
62 100

64 43.0 22.5 41.9#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 7.231 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU039032.D

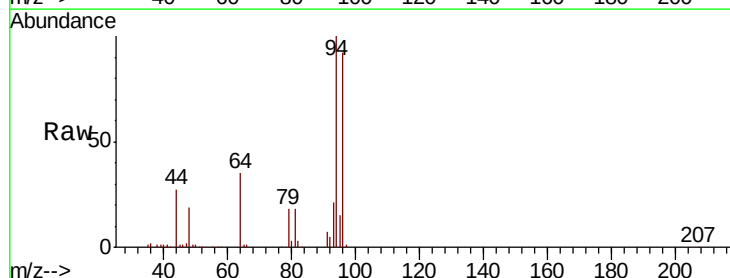
Acq: 23 Jun 2020 02:17

Tgt Ion: 94 Resp: 41942

Ion Ratio Lower Upper

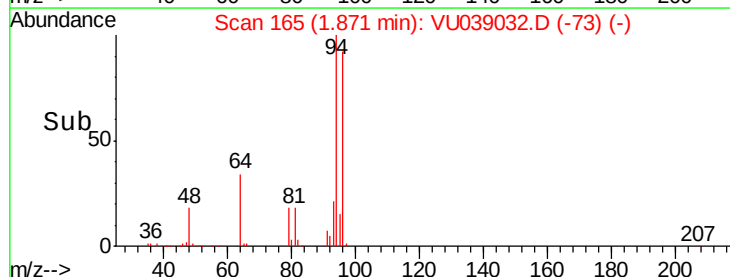
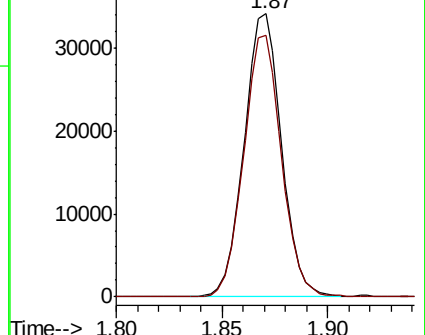
94 100

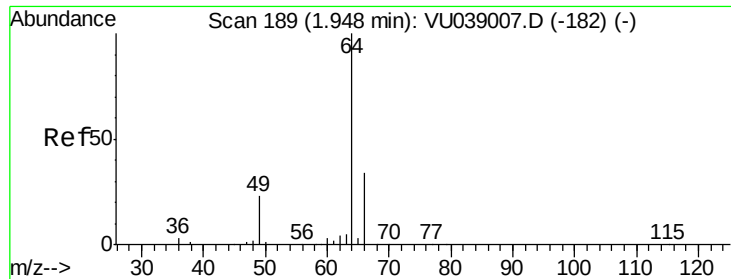
96 92.2 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

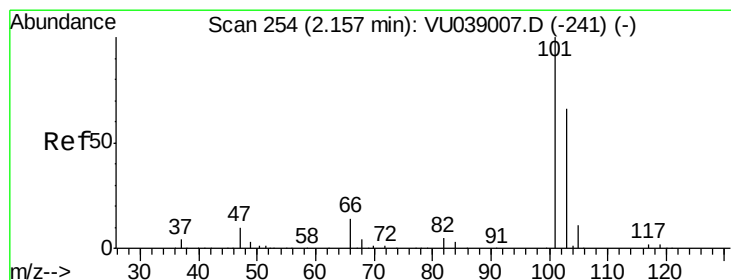
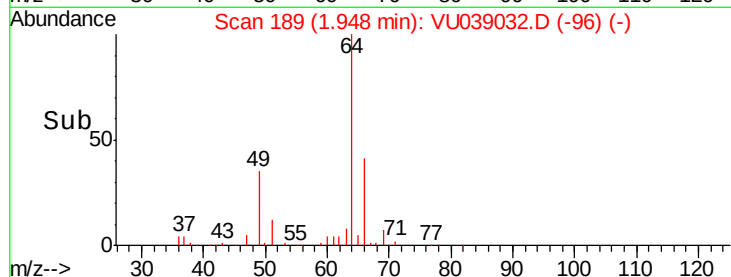
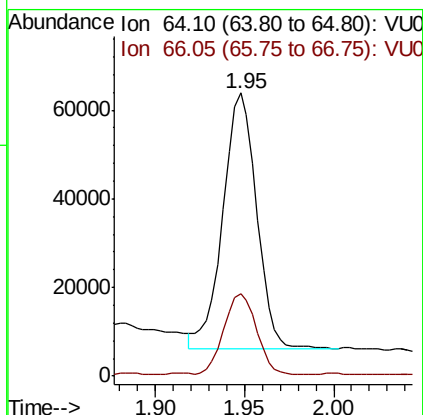
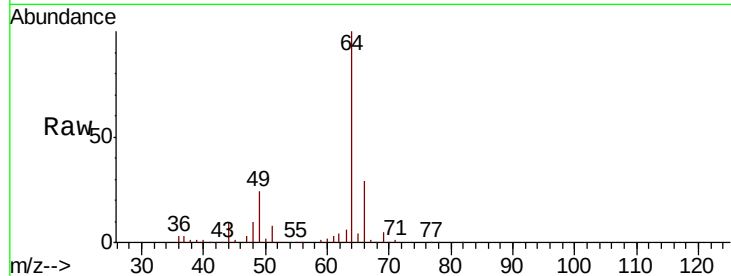




#8
Chloroethane
Concen: 5.632 ug/L
RT: 1.95 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

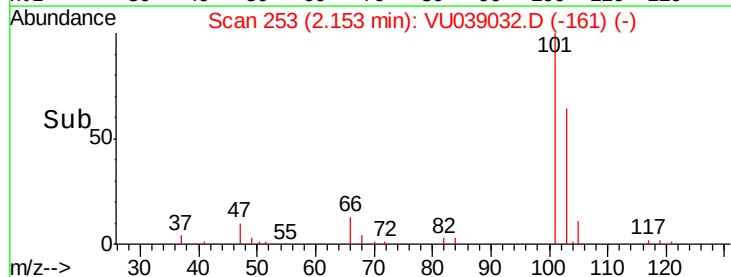
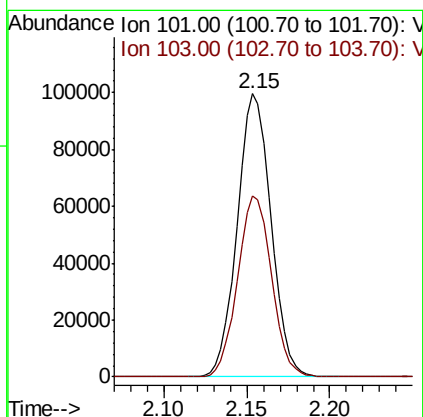
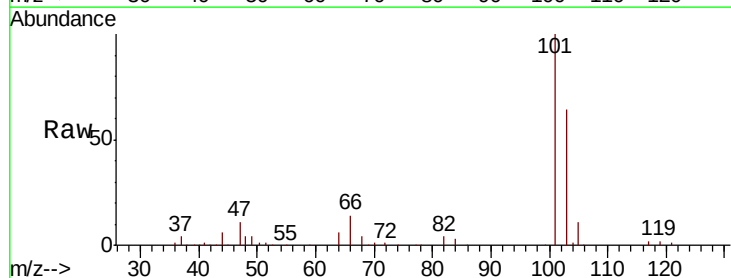
Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

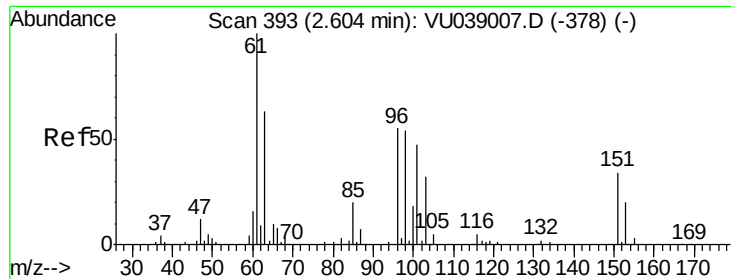
Tot Ion: 64 Resp: 75404
Ion Ratio Lower Upper
64 100
66 29.0 19.4 36.0



#9
Trichlorofluoromethane
Concen: 4.574 ug/L
RT: 2.15 min Scan# 253
Delta R.T. -0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Tgt Ion:101 Resp: 141107
Ion Ratio Lower Upper
101 100
103 64.4 51.4 77.2





#10

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

Concen: 4.239 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

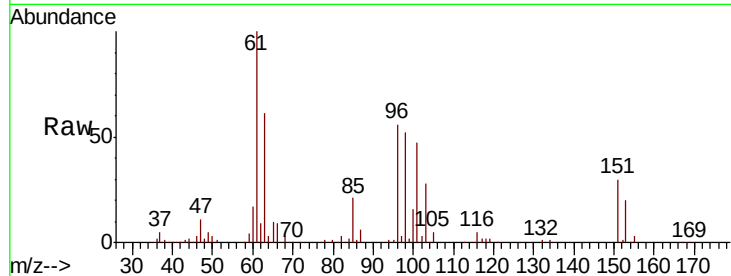
Tot Ion:101 Resp: 76988

Ion Ratio Lower Upper

101 100

85 45.9 36.5 54.7

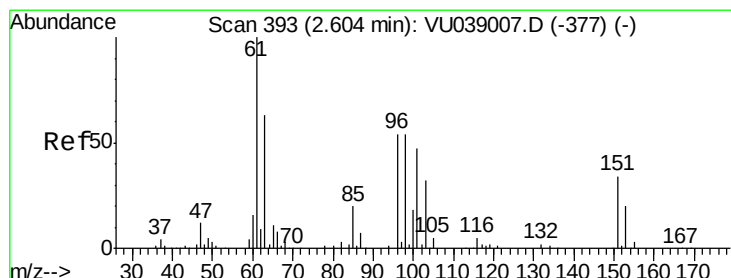
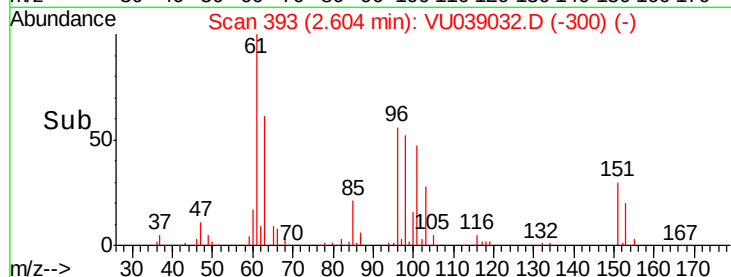
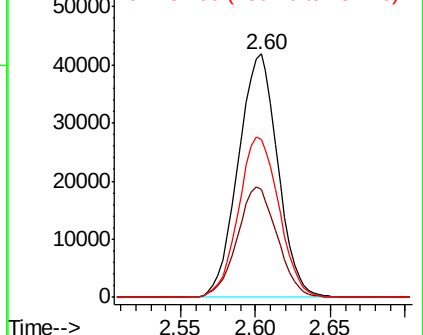
151 67.4 56.2 84.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.750 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

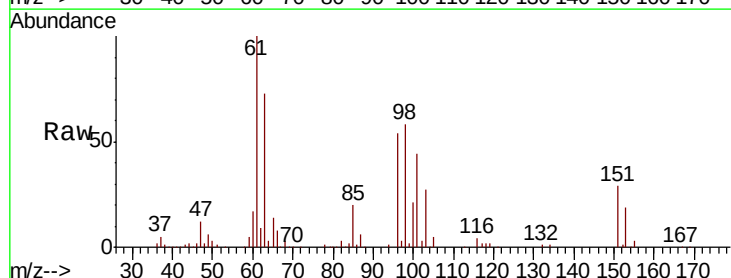
Tgt Ion: 96 Resp: 81835

Ion Ratio Lower Upper

96 100

61 185.4 128.7 239.1

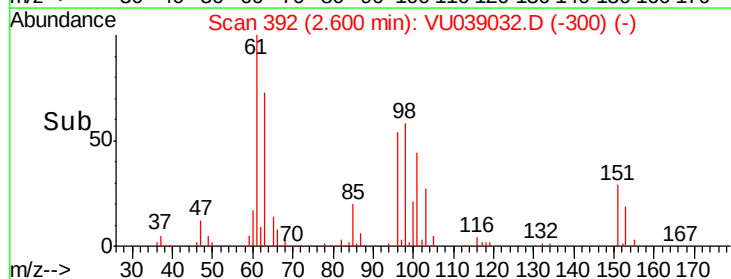
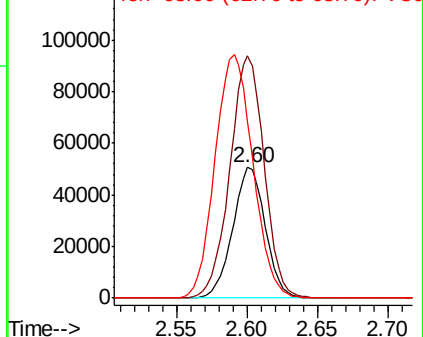
63 135.5 101.5 188.5

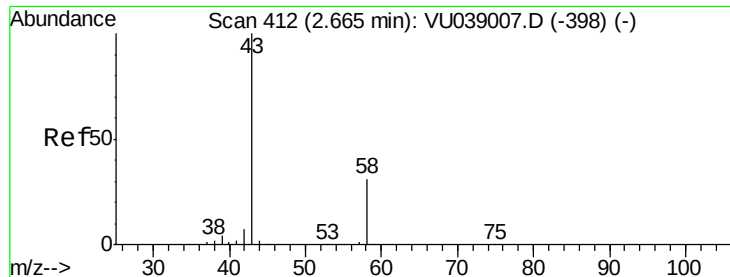


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.264 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.01 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

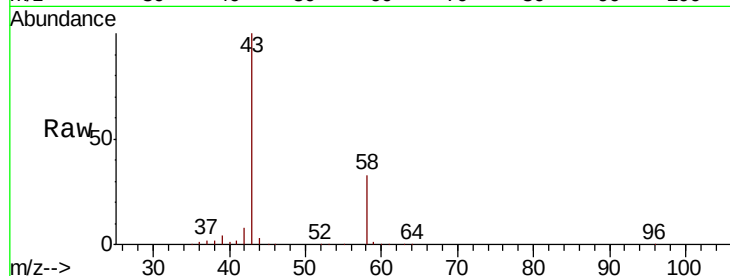
VSTD00511

Tot Ion: 43 Resp: 206095

Ion Ratio Lower Upper

43 100

58 32.7 0.0 64.8



Abundance Ion 43.05 (42.75 to 43.75): VU039007.D (-398) (-)

Ion 58.05 (57.75 to 58.75): VU039007.D (-398) (-)

2.66

120000

100000

80000

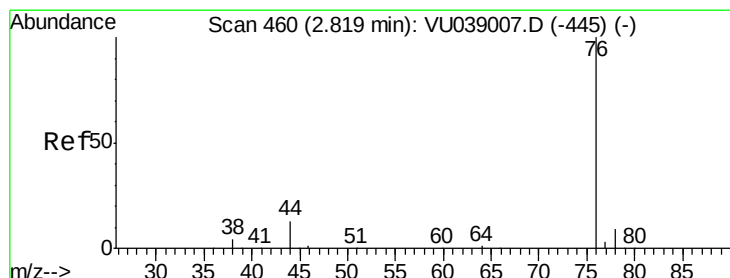
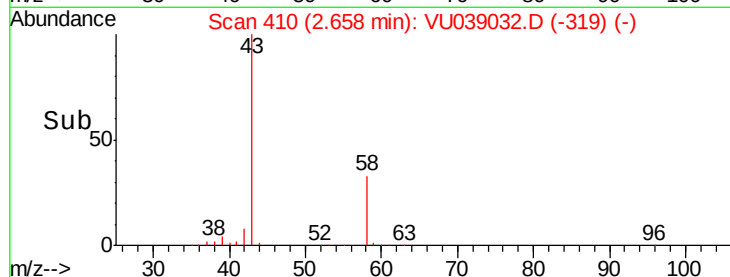
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 4.672 ug/L

RT: 2.82 min Scan# 459

Delta R.T. -0.00 min

Lab File: VU039032.D

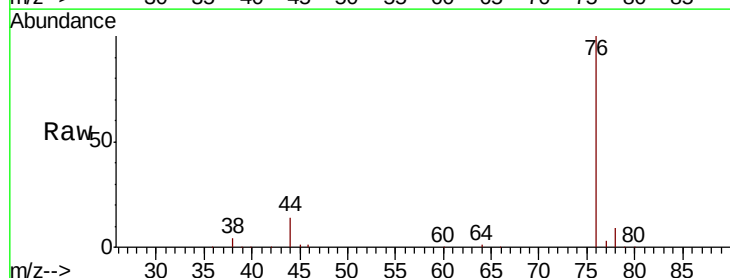
Acq: 23 Jun 2020 02:17

Tgt Ion: 76 Resp: 278524

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU039007.D (-445) (-)

Ion 78.00 (77.70 to 78.70): VU039007.D (-445) (-)

2.82

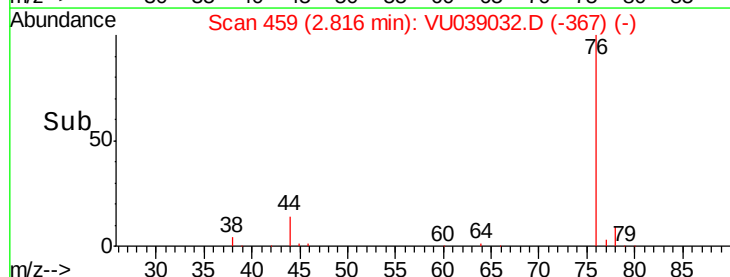
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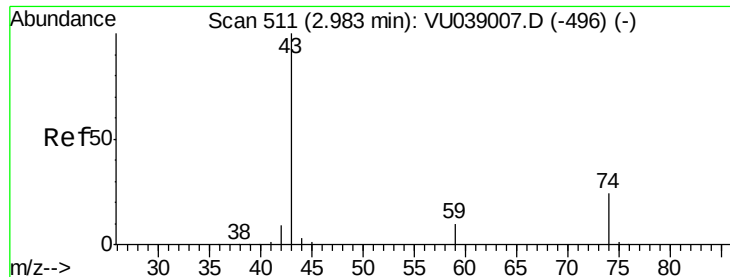
100000

50000

0

Time-->

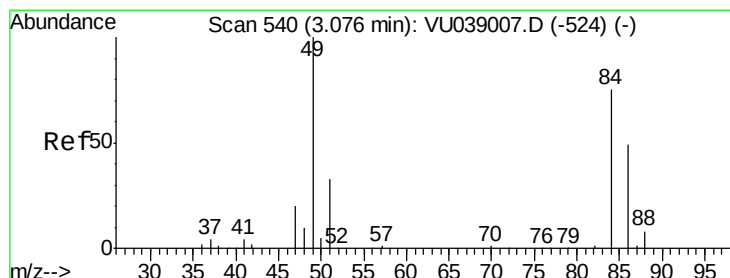
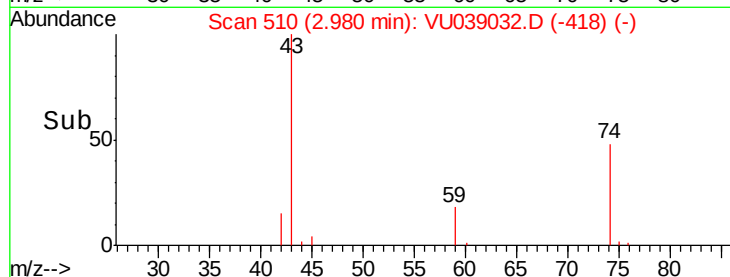
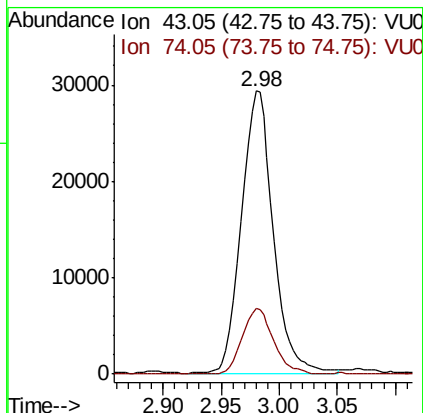
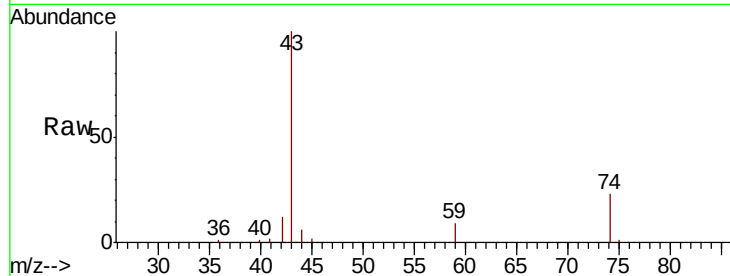




#15
Methvl Acetate
Concen: 5.529 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

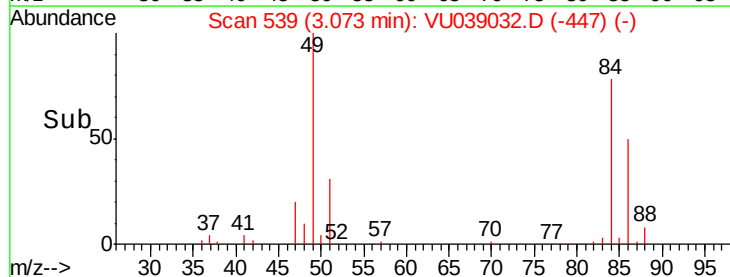
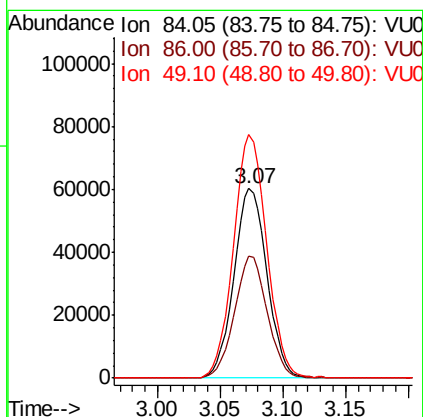
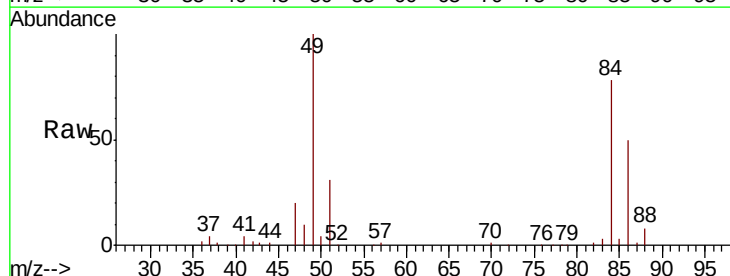
Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

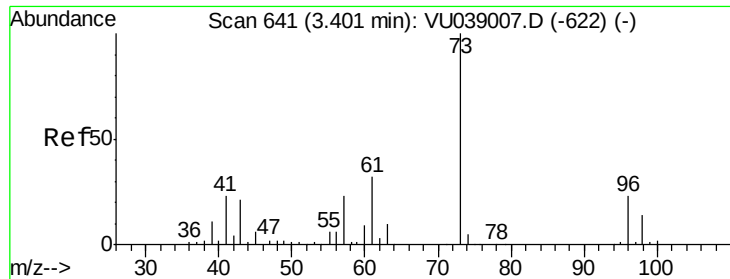
Tot Ion: 43 Resp: 56570
Ion Ratio Lower Upper
43 100
74 22.5 18.0 27.0



#16
Methylene chloride
Concen: 5.279 ug/L
RT: 3.07 min Scan# 539
Delta R.T. -0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Tgt Ion: 84 Resp: 110560
Ion Ratio Lower Upper
84 100
86 64.1 43.1 80.1
49 128.3 90.9 168.9

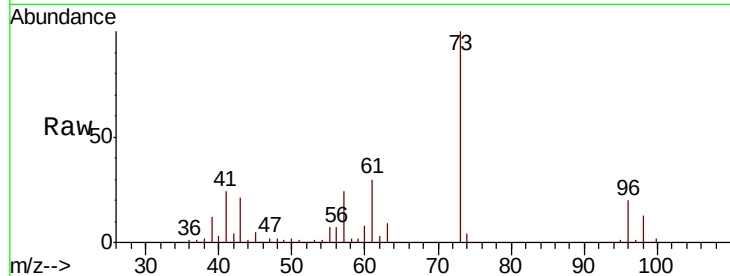




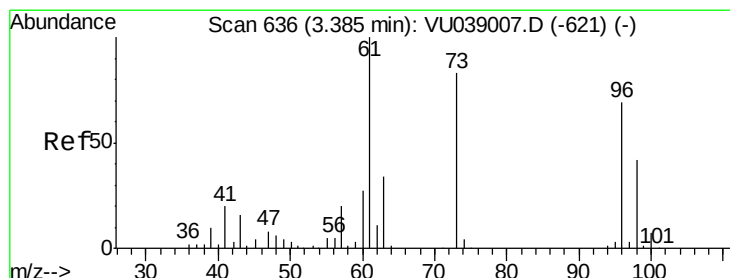
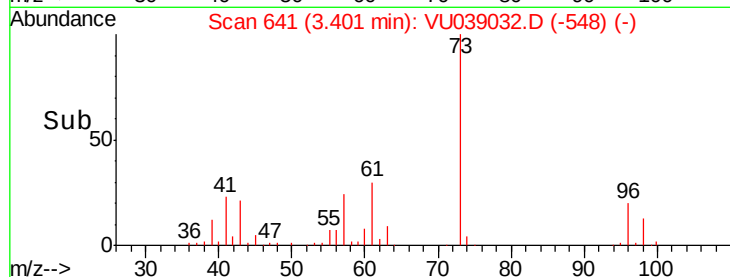
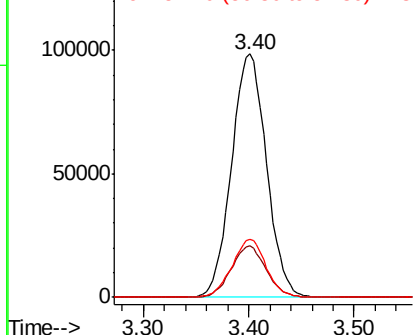
#17
Methyl tert-butyl Ether
Concen: 5.440 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

Tot Ion: 73 Resp: 226715
Ion Ratio Lower Upper
73 100
43 21.2 16.7 25.1
57 23.4 18.8 28.2

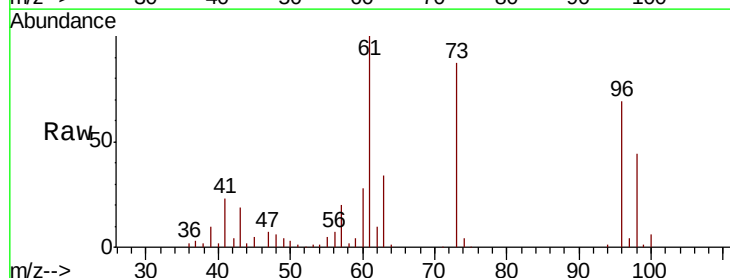


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

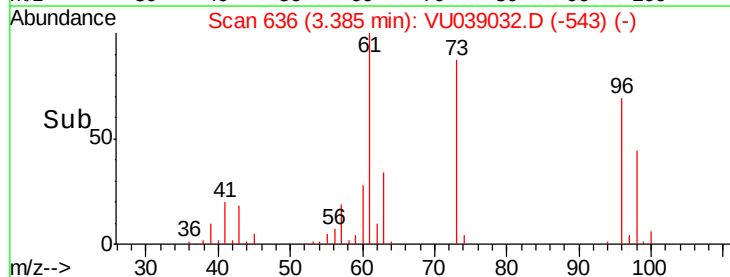
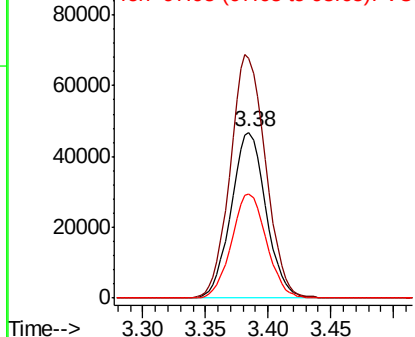


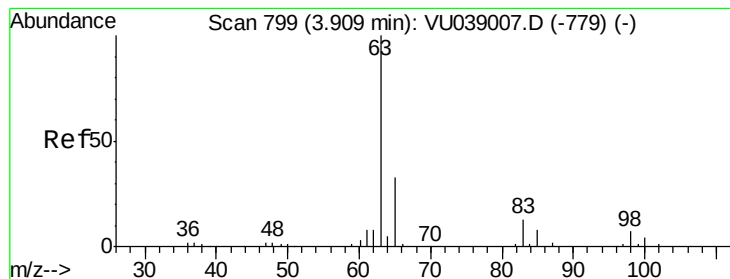
#18
trans-1,2-Dichloroethene
Concen: 4.924 ug/L
RT: 3.38 min Scan# 636
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Tgt Ion: 96 Resp: 90404
Ion Ratio Lower Upper
96 100
61 145.1 102.6 190.6
98 63.2 45.0 83.6



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





#19

1,1-Dichloroethane

Concen: 5.243 ug/L

RT: 3.91 min Scan# 798

Delta R.T. -0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

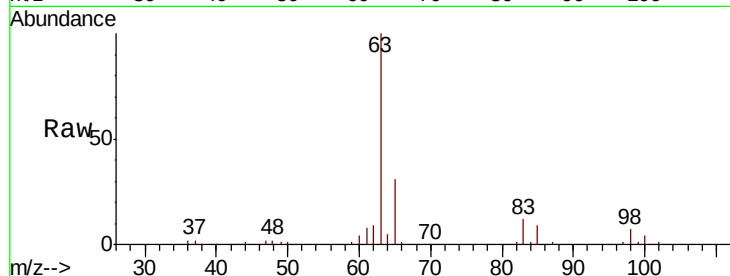
Tot Ion: 63 Resp: 190683

Ion Ratio Lower Upper

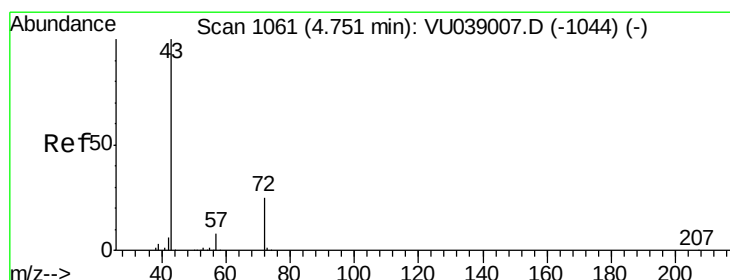
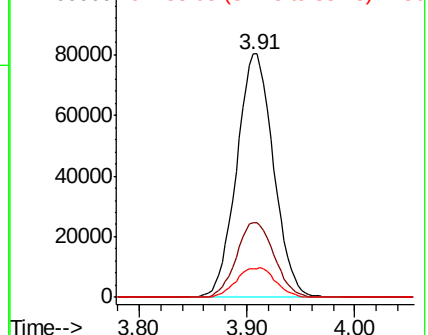
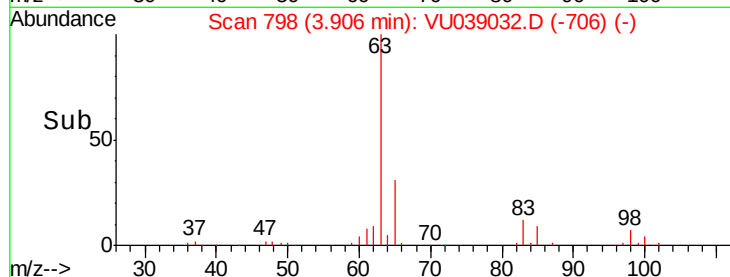
63 100

65 30.9 22.5 41.7

83 11.6 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VU039032.D (-706) (-)



#21

2-Butanone

Concen: 54.076 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. -0.01 min

Lab File: VU039032.D

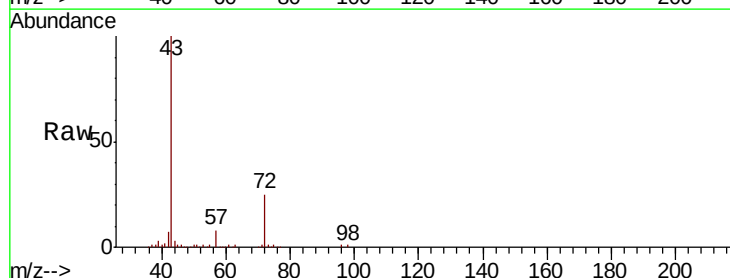
Acq: 23 Jun 2020 02:17

Tgt Ion: 43 Resp: 350551

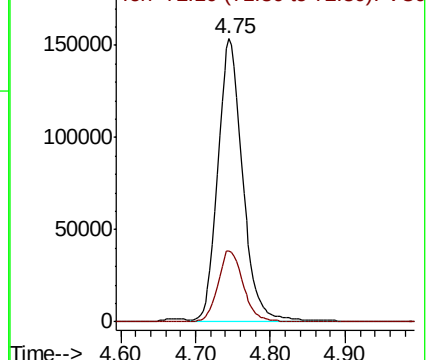
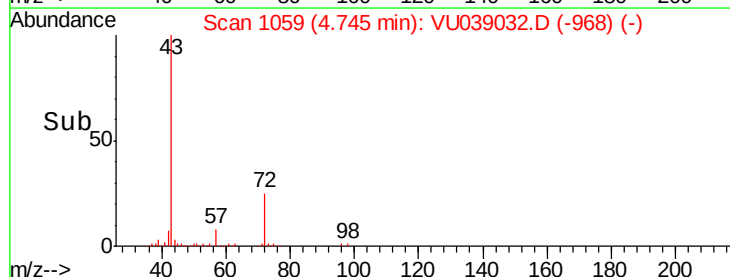
Ion Ratio Lower Upper

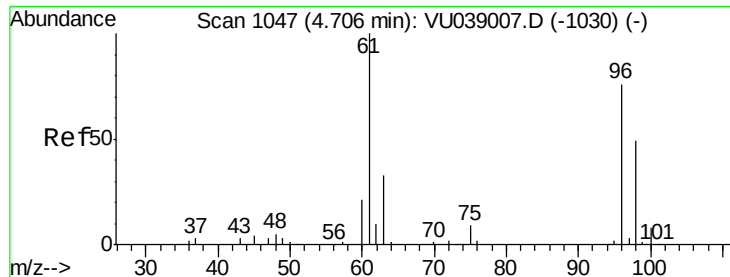
43 100

72 26.2 13.1 39.3



Abundance Ion 43.05 (42.75 to 43.75): VU039032.D (-968) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.253 ug/L

RT: 4.70 min Scan# 1046

Delta R.T. -0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

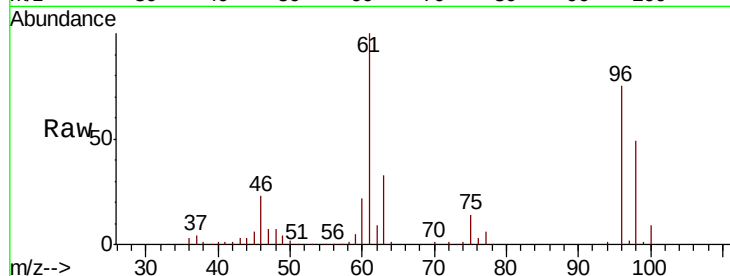
Tot Ion: 96 Resp: 103431

Ion Ratio Lower Upper

96 100

61 134.2 92.0 170.8

68 0.0 0.0 0.0

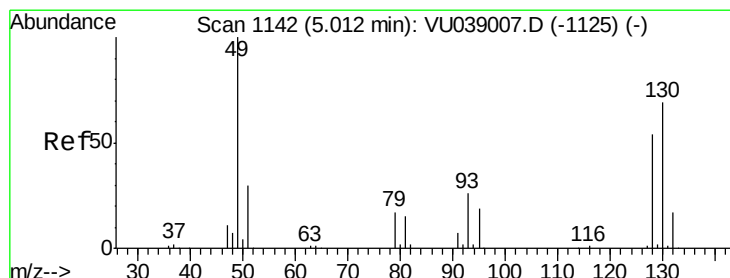
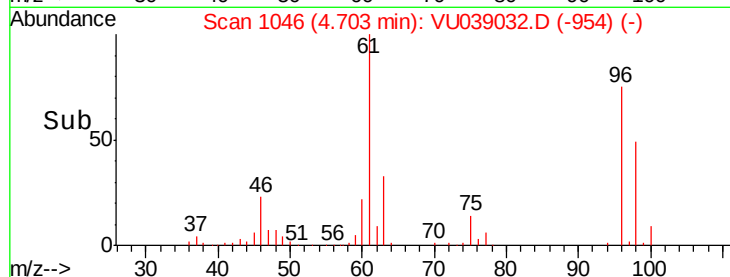
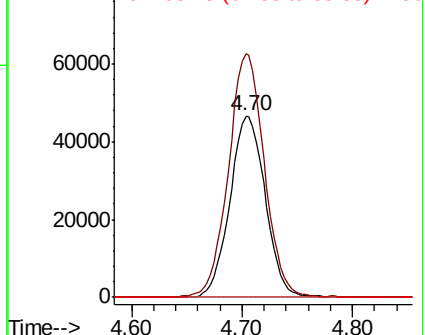


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.318 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Tgt Ion: 128 Resp: 48790

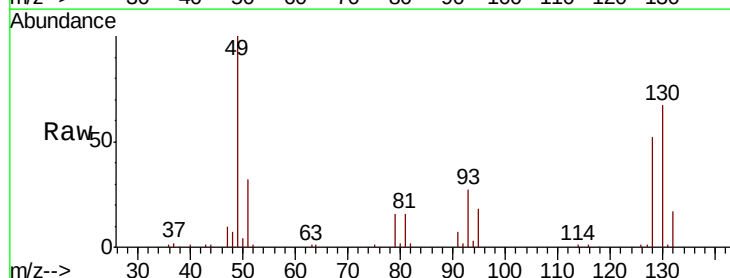
Ion Ratio Lower Upper

128 100

49 191.8 138.4 257.0

130 127.9 90.3 167.7

51 61.2 46.6 69.8



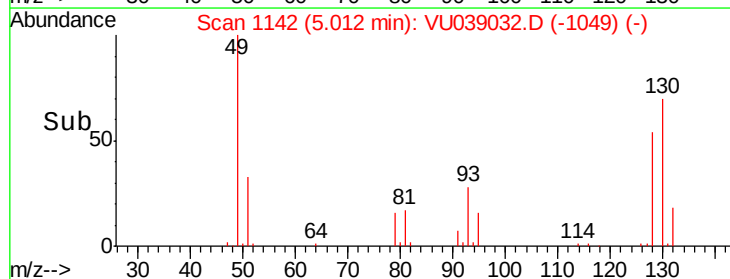
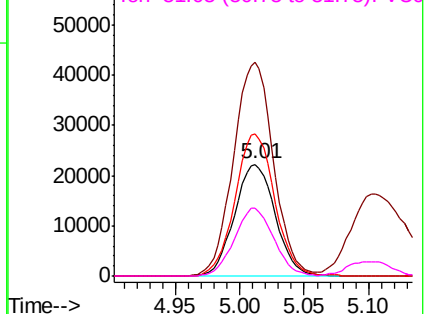
Abundance

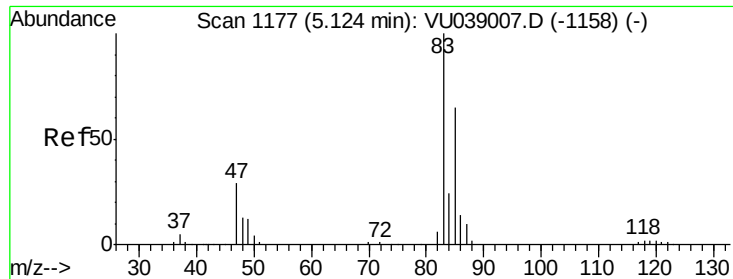
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

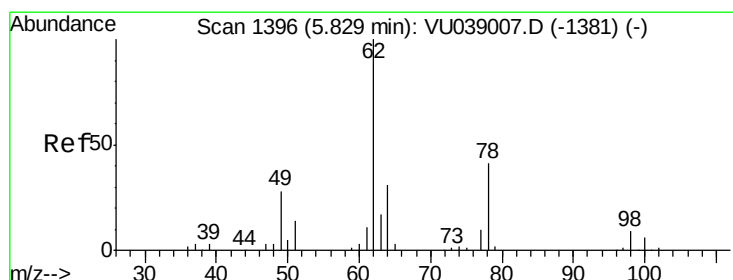
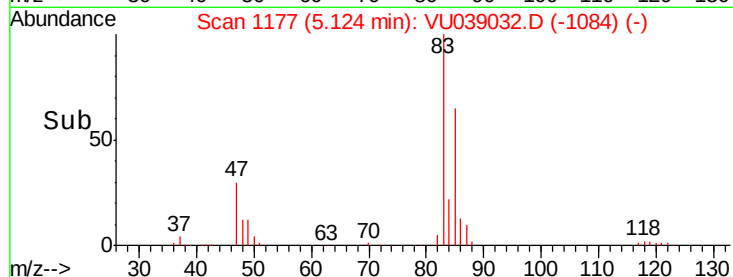
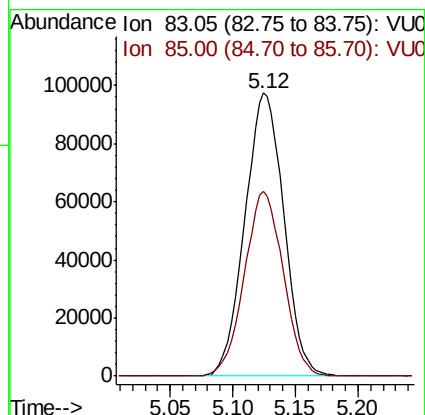
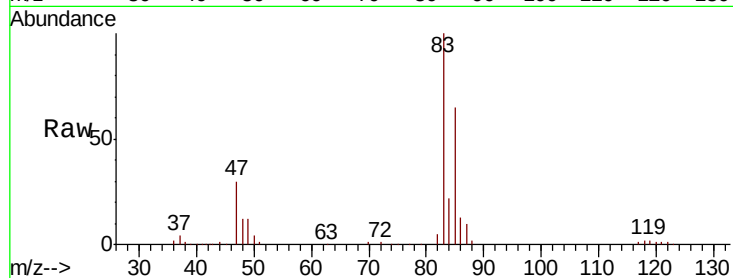




#25
Chloroform
Concen: 5.574 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

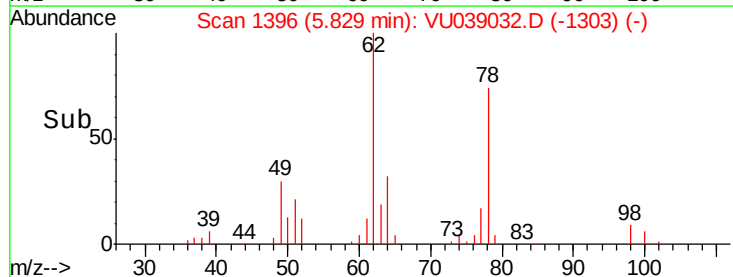
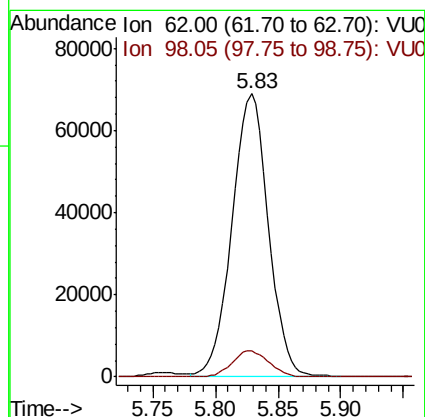
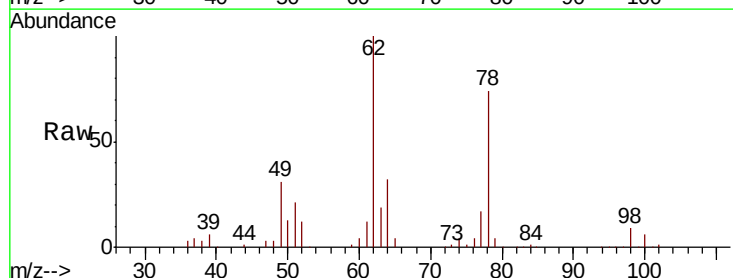
Instrument :
MSVOA_U
ClientSampled :
VSTD00511

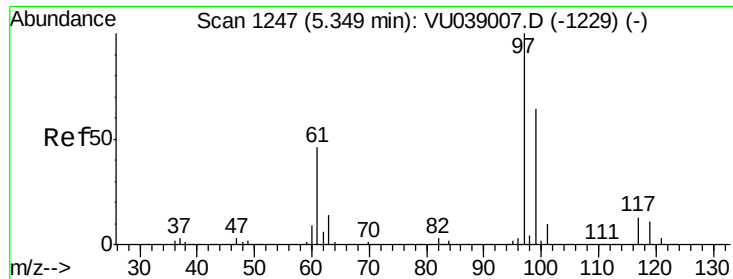
Tot Ion: 83 Resp: 210419
Ion Ratio Lower Upper
83 100
85 65.5 44.9 83.5



#27
1,2-Dichloroethane
Concen: 5.451 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Tgt Ion: 62 Resp: 138486
Ion Ratio Lower Upper
62 100
98 9.0 7.8 11.8

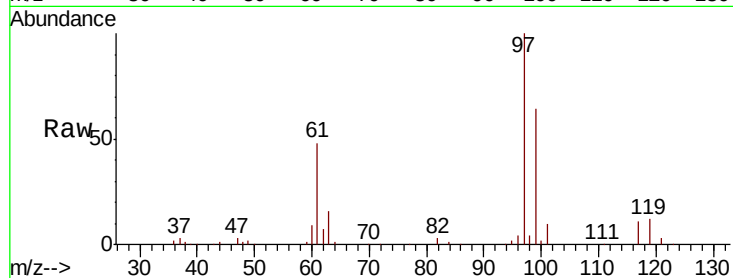




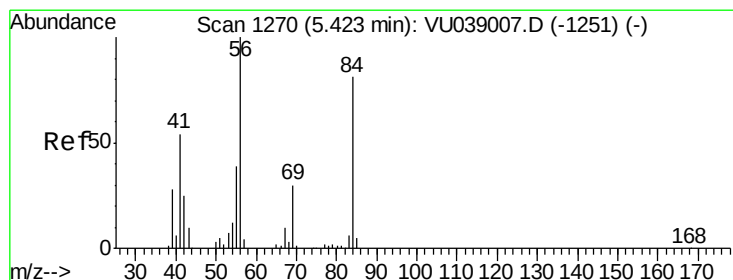
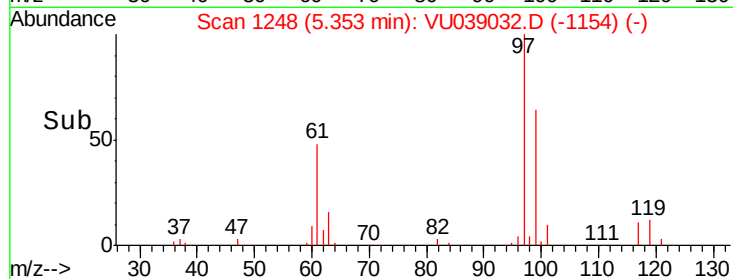
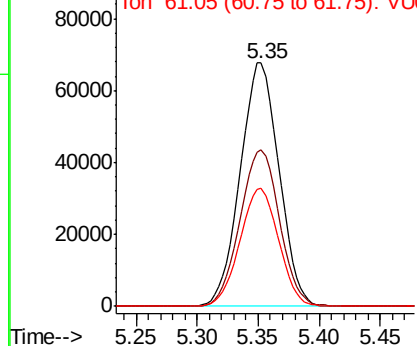
#29
 1,1,1-Trichloroethane
 Concen: 4.975 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD00511

Tot Ion: 97 Resp: 148942
 Ion Ratio Lower Upper
 97 100
 99 65.5 51.7 77.5
 61 48.3 38.2 57.4

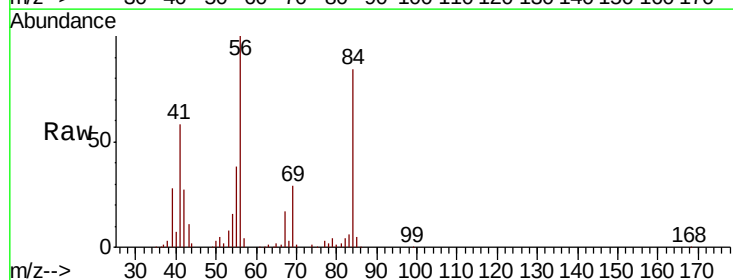


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

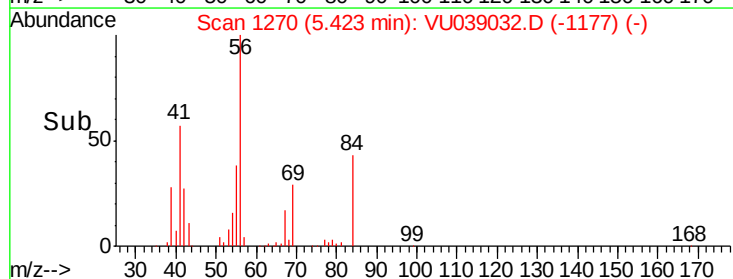
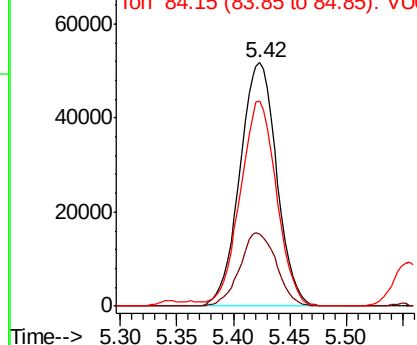


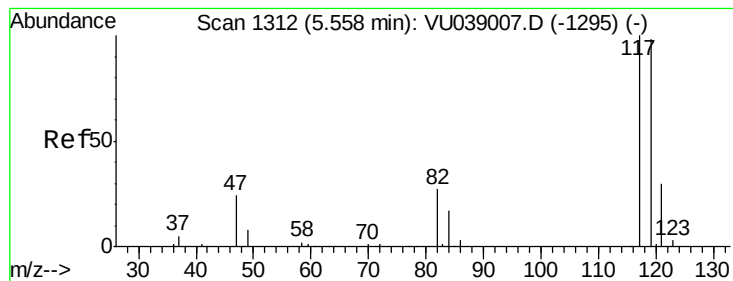
#30
 Cyclohexane
 Concen: 3.971 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Tgt Ion: 56 Resp: 117247
 Ion Ratio Lower Upper
 56 100
 69 30.0 23.5 35.3
 84 83.4 67.1 100.7



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.636 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

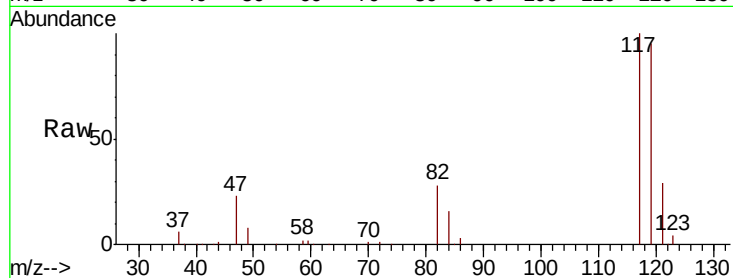
VSTD00511

Tot Ion:117 Resp: 115887

Ion Ratio Lower Upper

117 100

119 95.0 76.6 114.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.56

60000

50000

40000

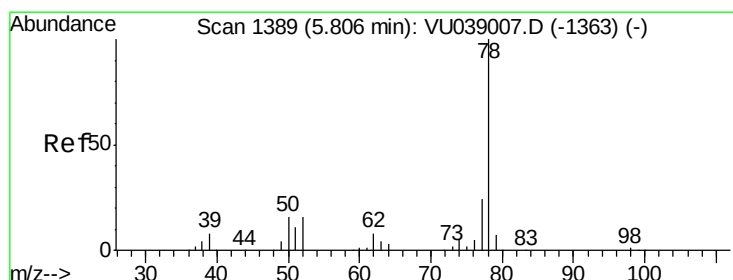
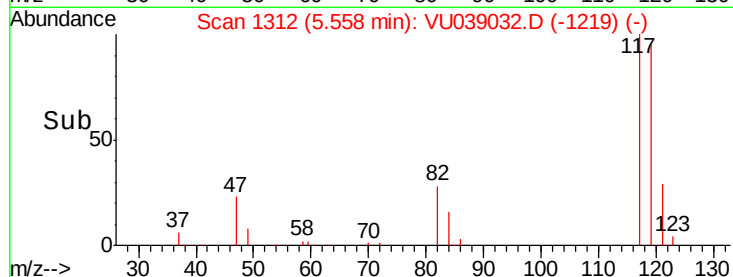
30000

20000

10000

0

Time--> 5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 5.302 ug/L

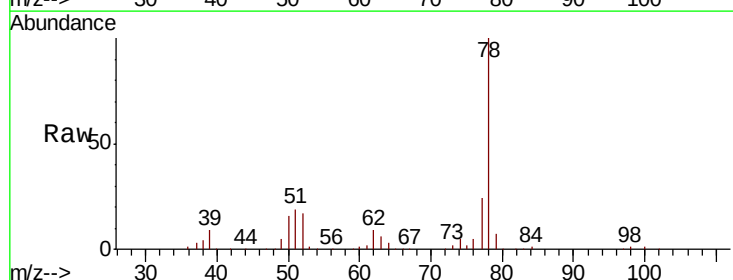
RT: 5.81 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Tgt Ion: 78 Resp: 401406



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.81

200000

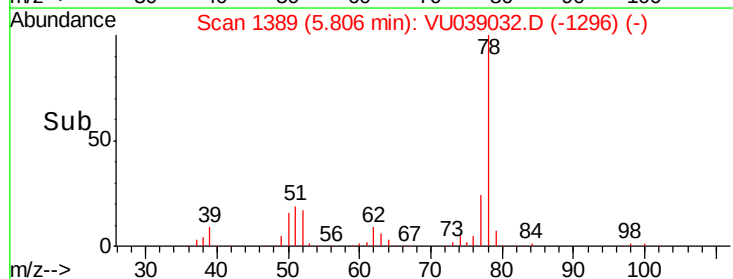
150000

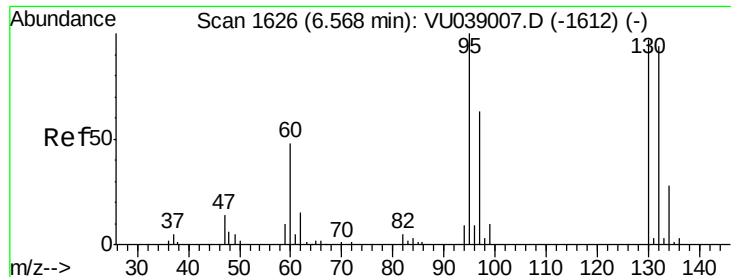
100000

50000

0

Time--> 5.70 5.80 5.90

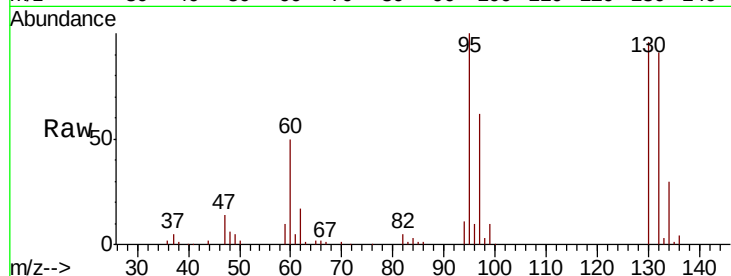




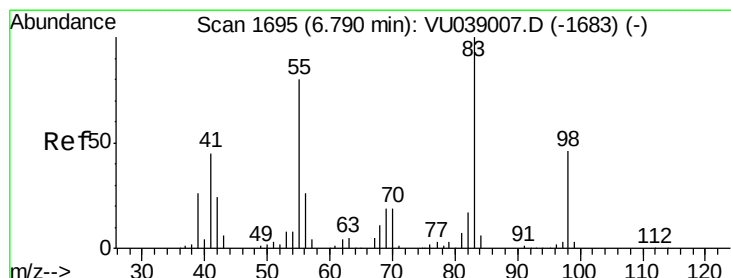
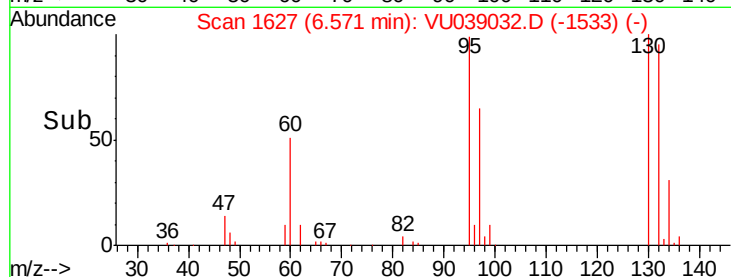
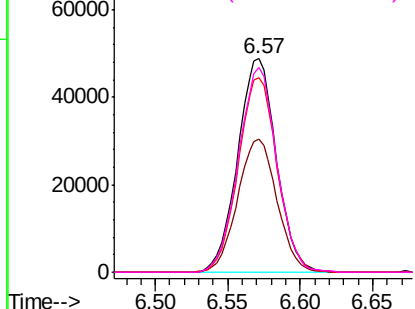
#34
 Trichloroethene
 Concen: 4.786 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion: 95 Resp: 90434
 Ion Ratio Lower Upper
 95 100
 97 62.3 46.0 85.4
 132 91.1 65.0 120.6
 130 95.9 68.0 126.2

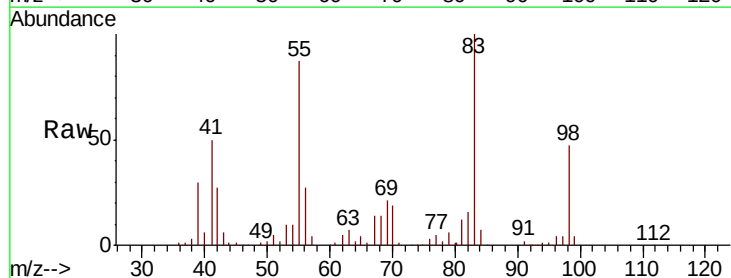


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

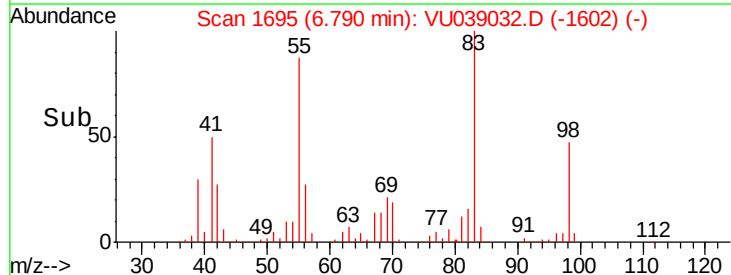
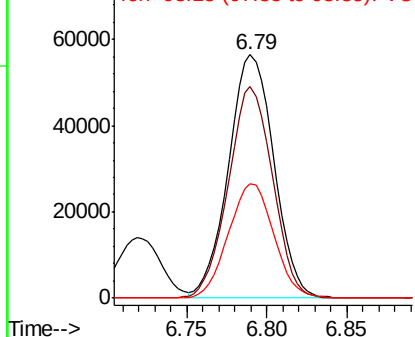


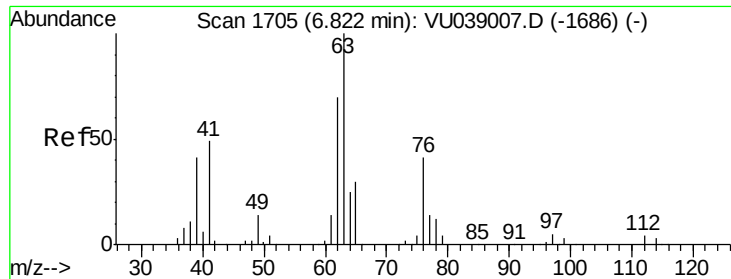
#35
 Methylcyclohexane
 Concen: 3.810 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. 0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Tgt Ion: 83 Resp: 109054
 Ion Ratio Lower Upper
 83 100
 55 85.2 65.1 97.7
 98 47.1 37.0 55.4



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0

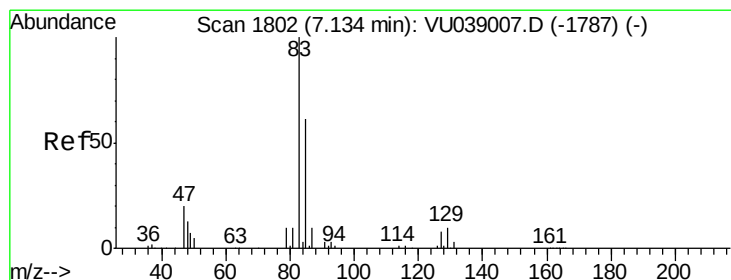
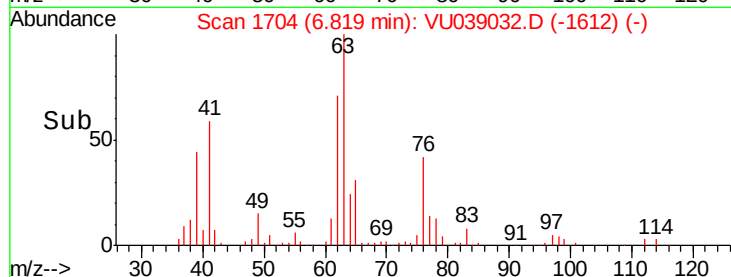
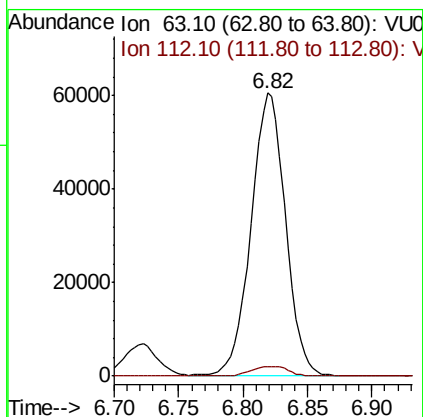
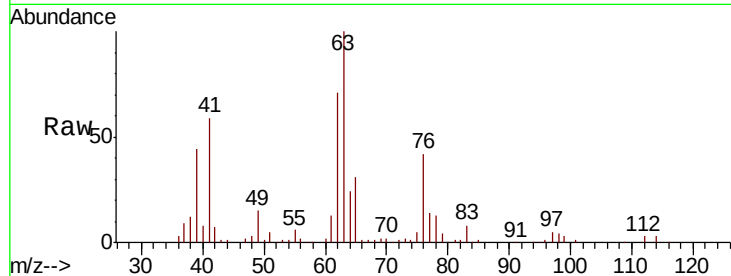




#37
 1,2-Dichloropropane
 Concen: 5.525 ug/L
 RT: 6.82 min Scan# 1704
 Delta R.T. -0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

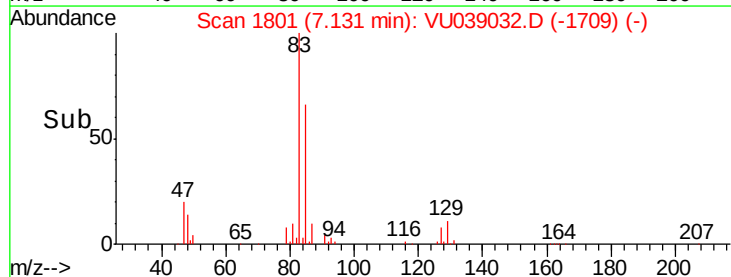
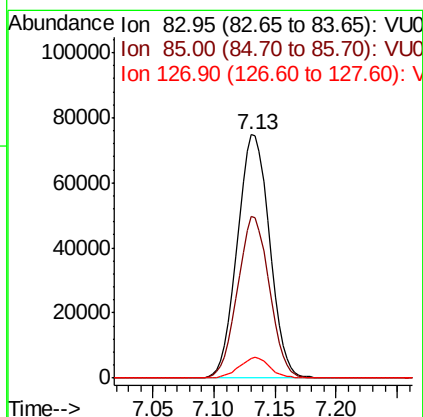
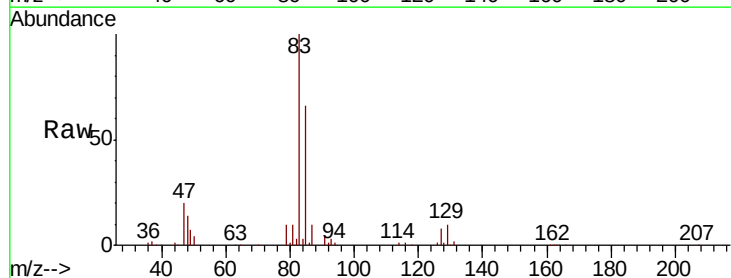
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

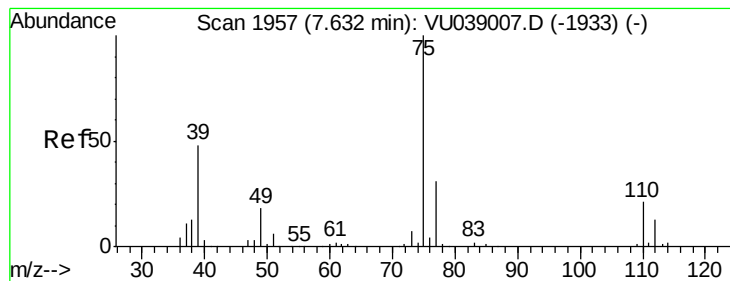
Tot Ion: 63 Resp: 112472
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.4 5.2



#38
 Bromodichloromethane
 Concen: 5.455 ug/L
 RT: 7.13 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Tgt Ion: 83 Resp: 137121
 Ion Ratio Lower Upper
 83 100
 85 66.2 43.6 81.0
 127 8.2 6.1 9.1



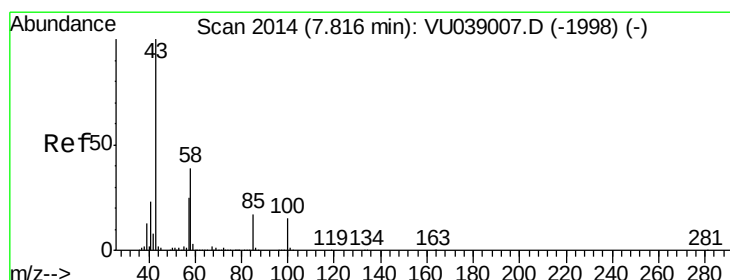
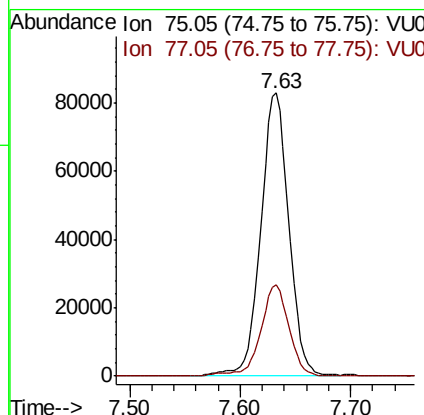
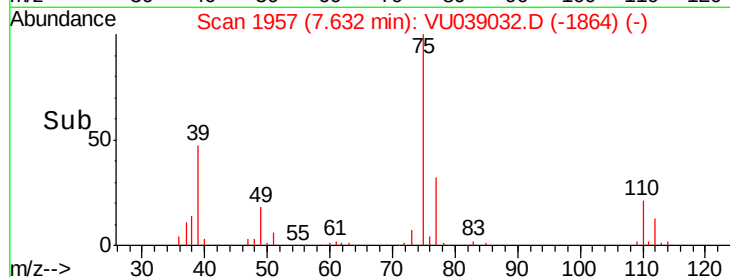
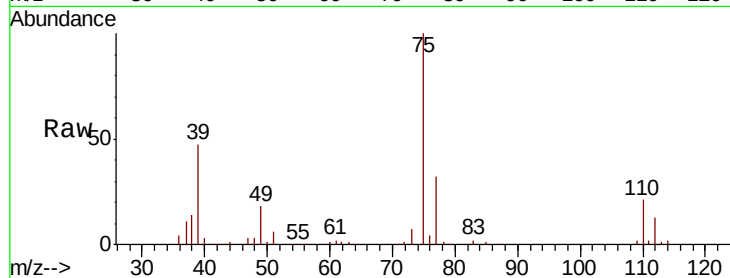


#39

cis-1,3-Dichloropropene
Concen: 5.032 ug/L
RT: 7.63 min Scan# 1957
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

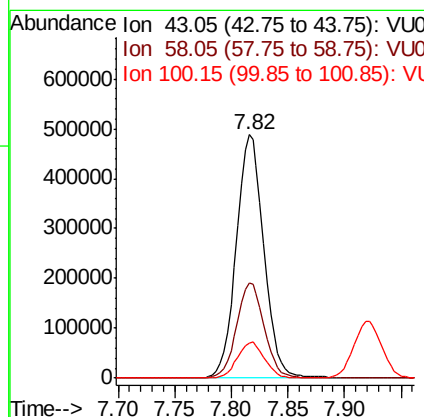
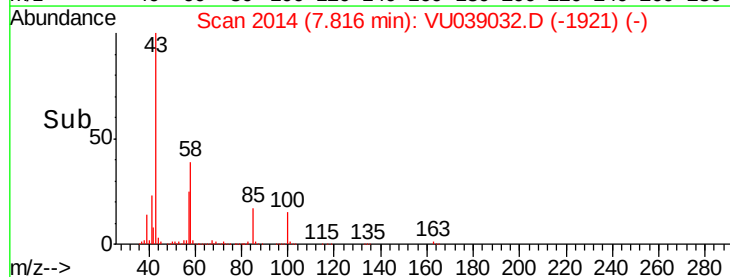
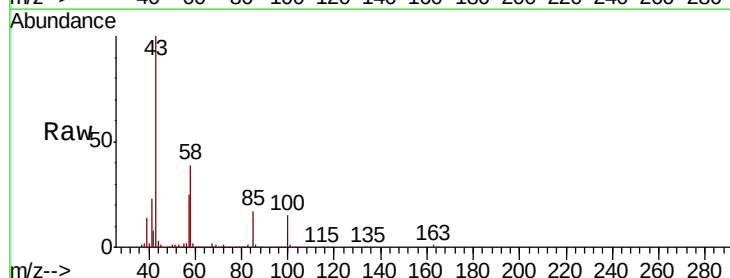
Tot Ion: 75 Resp: 146275
Ion Ratio Lower Upper
75 100
77 32.1 22.0 41.0

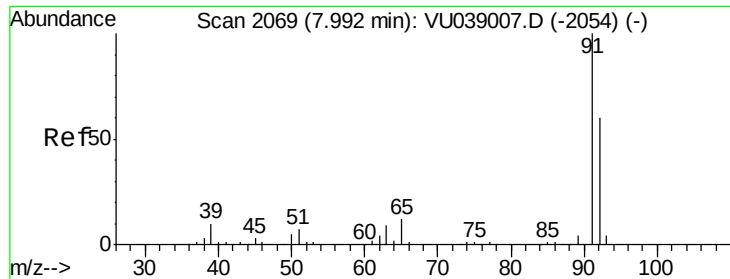


#40

4-Methyl-2-pentanone
Concen: 55.710 ug/L
RT: 7.82 min Scan# 2014
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Tgt Ion: 43 Resp: 828987
Ion Ratio Lower Upper
43 100
58 39.1 31.4 47.0
100 14.7 11.6 17.4





#42

Toluene

Concen: 5.020 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

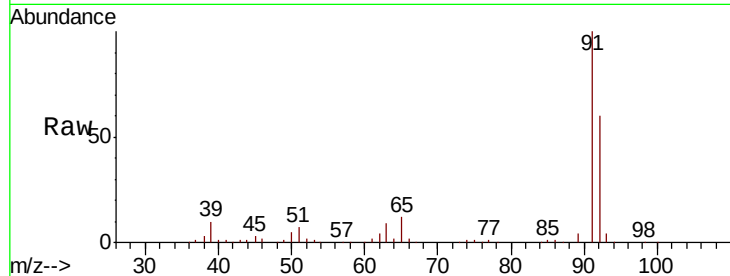
VSTD00511

Tot Ion: 91 Resp: 381854

Ion Ratio Lower Upper

91 100

92 59.6 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VU039007.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU039007.D (-2054) (-)

7.99

250000

200000

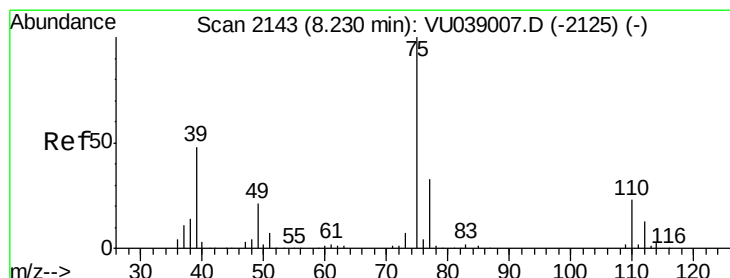
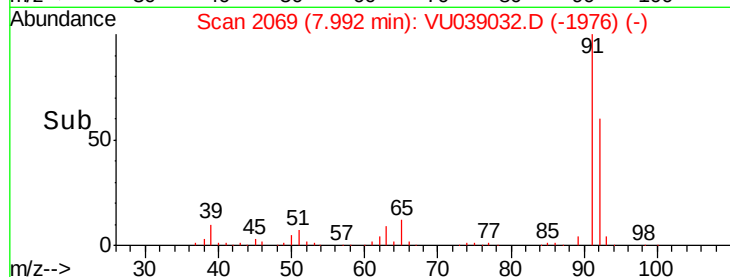
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.293 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VU039032.D

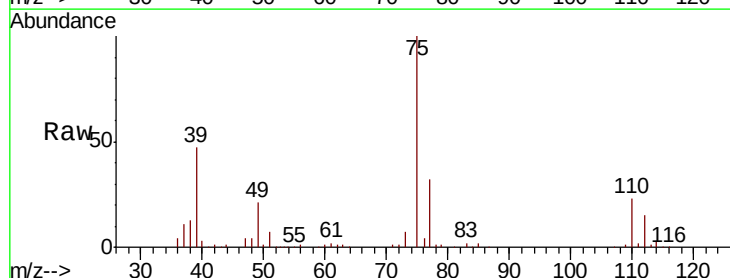
Acq: 23 Jun 2020 02:17

Tgt Ion: 75 Resp: 137940

Ion Ratio Lower Upper

75 100

77 31.8 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VU039007.D (-2125) (-)

Ion 77.05 (76.75 to 77.75): VU039007.D (-2125) (-)

8.23

80000

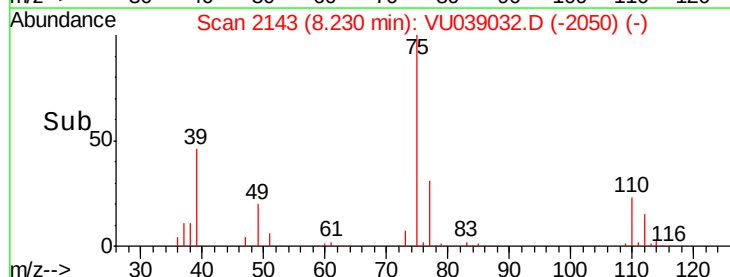
60000

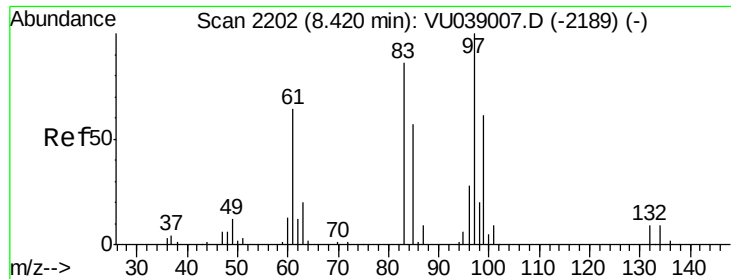
40000

20000

0

Time-->

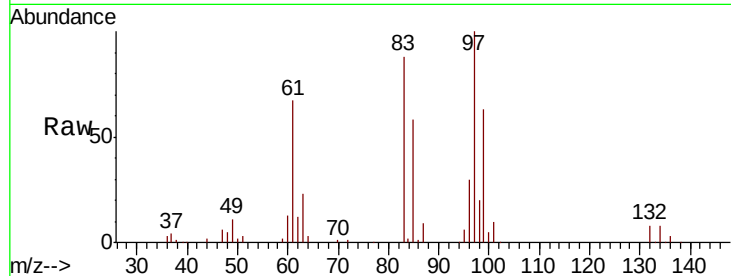




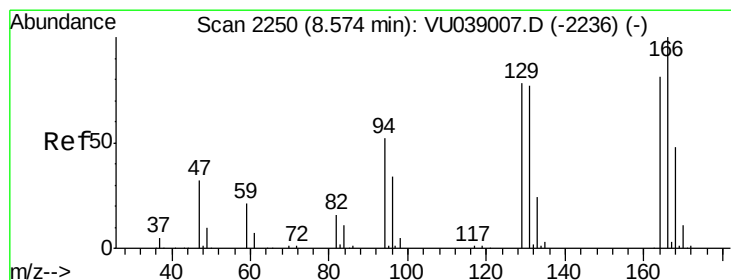
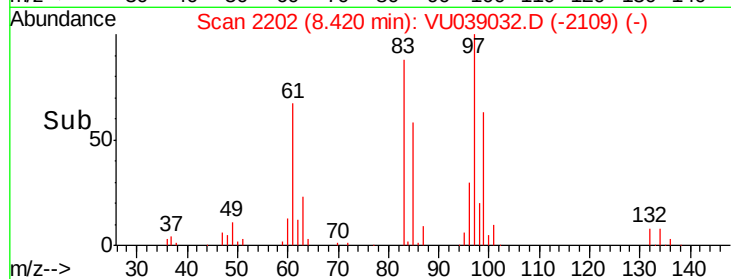
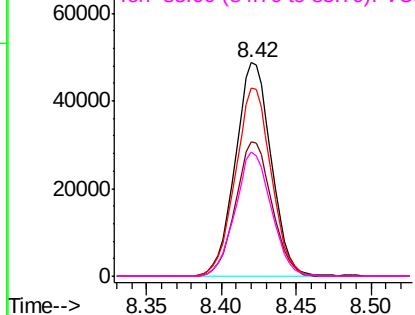
#45
 1,1,2-Trichloroethane
 Concen: 5.440 ug/L
 RT: 8.42 min Scan# 2202
 Delta R.T. 0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion:	97	Resp:	81525
Ion	Ratio	Lower	Upper
97	100		
99	62.8	42.8	79.4
83	88.0	60.9	113.1
85	58.2	40.2	74.6

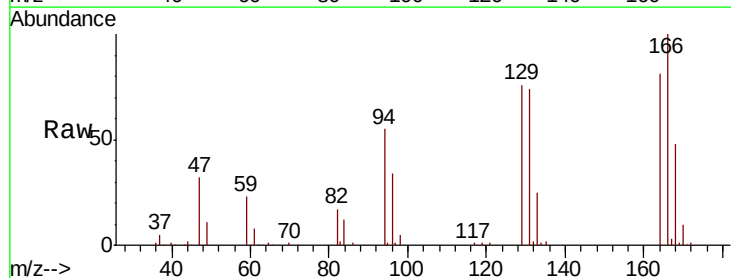


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

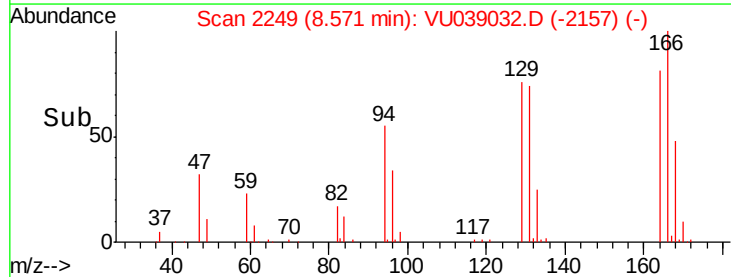
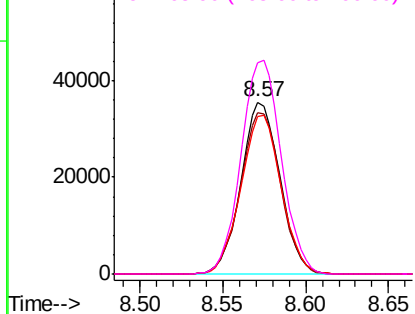


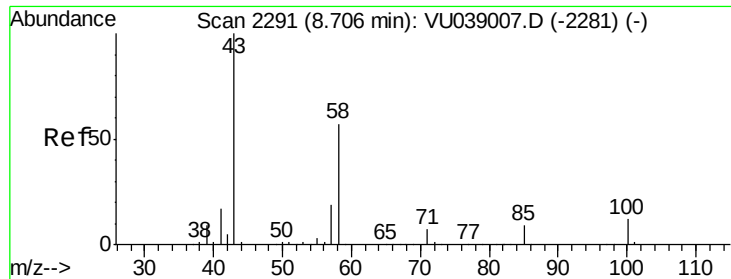
#47
 Tetrachloroethene
 Concen: 4.364 ug/L
 RT: 8.57 min Scan# 2249
 Delta R.T. -0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Tgt Ion:	164	Resp:	58058
Ion	Ratio	Lower	Upper
164	100		
129	93.6	69.2	128.6
131	91.7	66.9	124.3
166	123.1	93.0	172.8



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

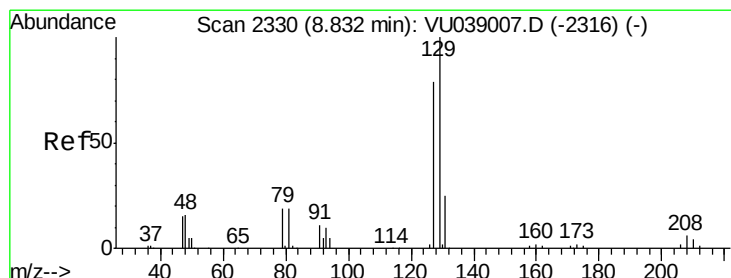
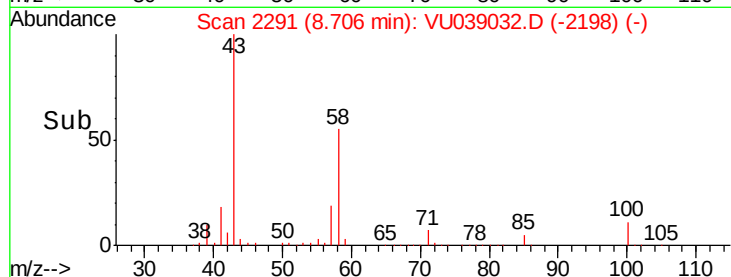
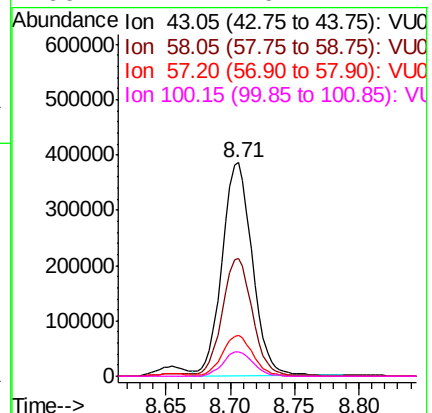
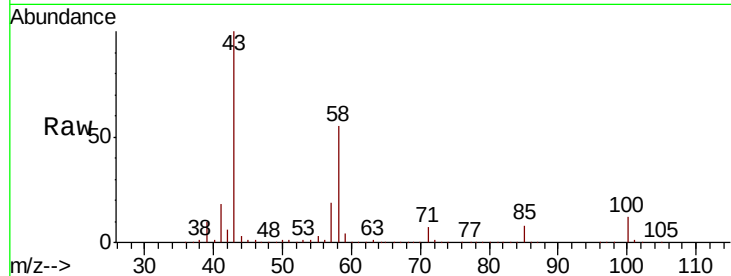




#48
2-Hexanone
Concen: 55.707 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

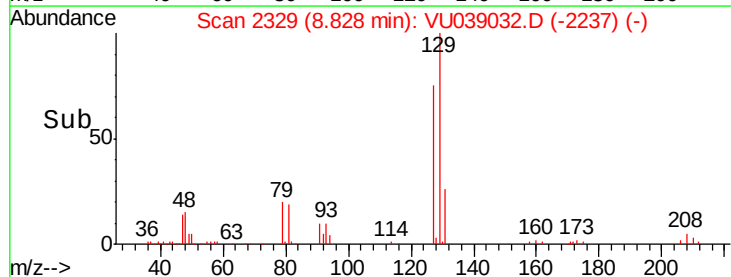
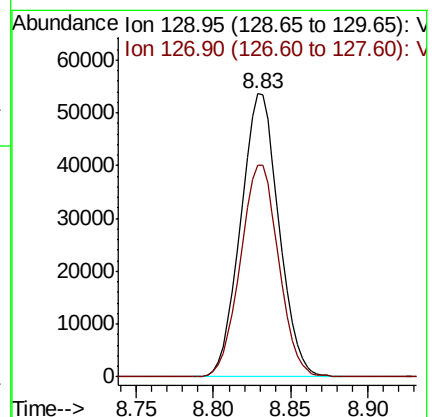
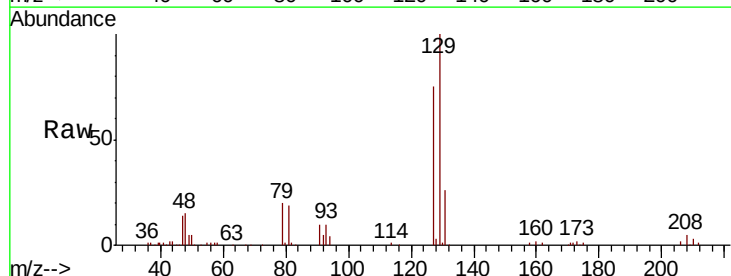
Instrument :
MSVOA_U
ClientSampled :
VSTD00511

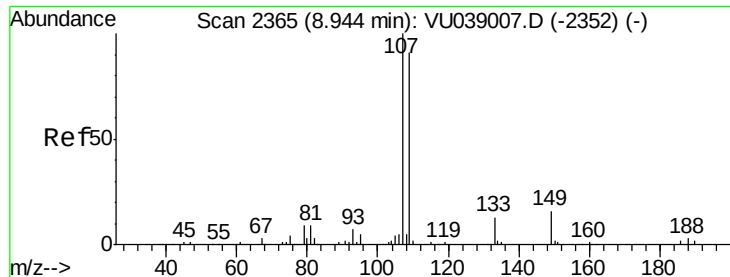
Tot Ion: 43 Resp: 627428
Ion Ratio Lower Upper
43 100
58 54.9 43.5 65.3
57 19.5 15.0 22.4
100 11.7 9.4 14.2



#49
Dibromochloromethane
Concen: 5.565 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Tgt Ion: 129 Resp: 92005
Ion Ratio Lower Upper
129 100
127 74.6 54.7 101.5

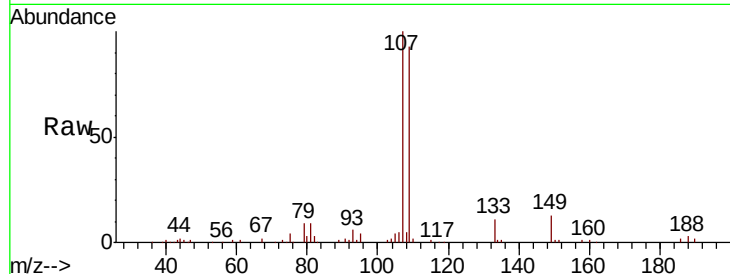




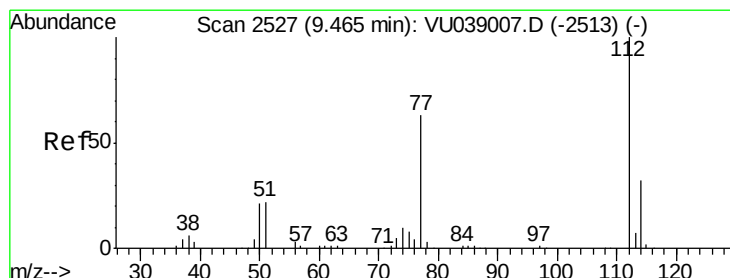
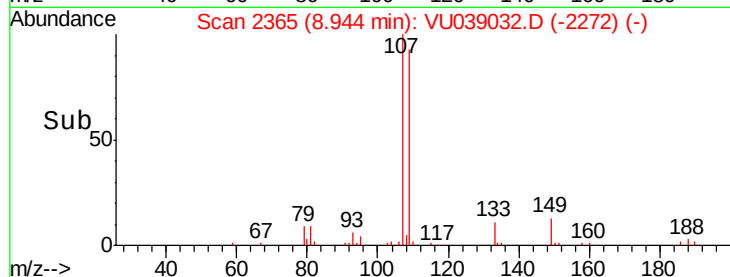
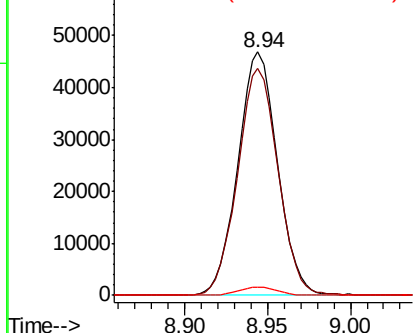
#50
1,2-Dibromoethane
Concen: 5.478 ug/L
RT: 8.94 min Scan# 2365
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

Tot Ion:107 Resp: 77684
Ion Ratio Lower Upper
107 100
109 93.0 65.0 120.6
188 3.3 2.2 3.2#

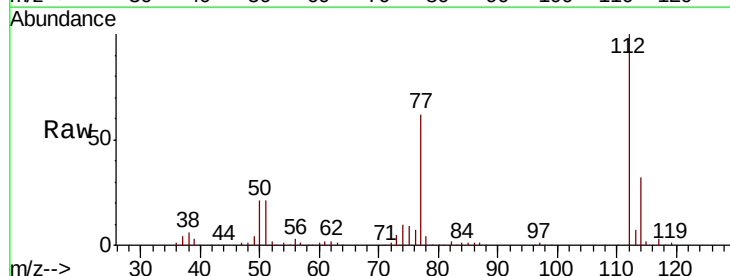


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

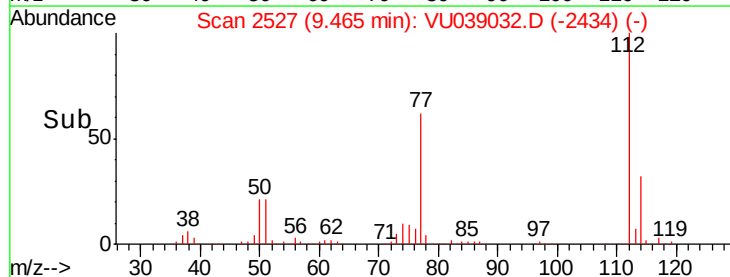
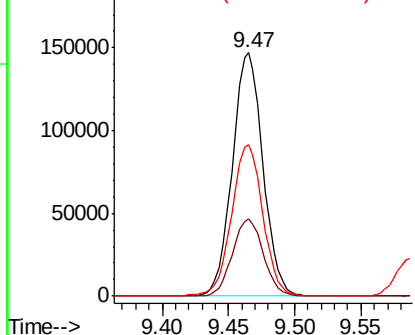


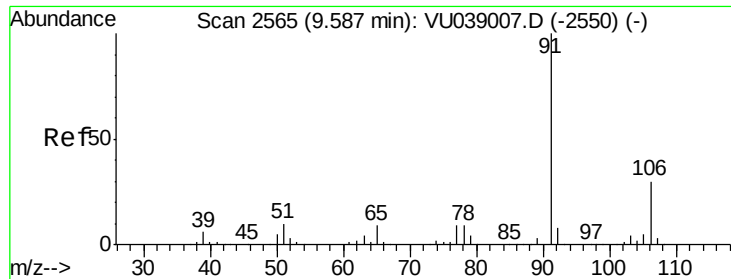
#51
Chlorobenzene
Concen: 4.851 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Tgt Ion:112 Resp: 235744
Ion Ratio Lower Upper
112 100
114 31.6 23.0 42.8
77 62.0 49.2 73.8



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 4.529 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

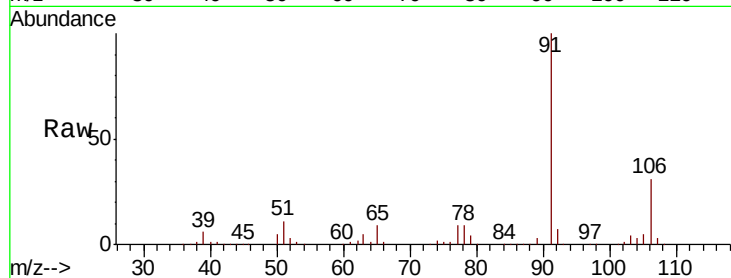
VSTD00511

Tot Ion: 91 Resp: 369292

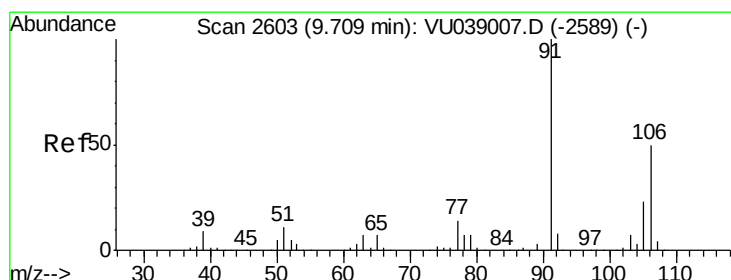
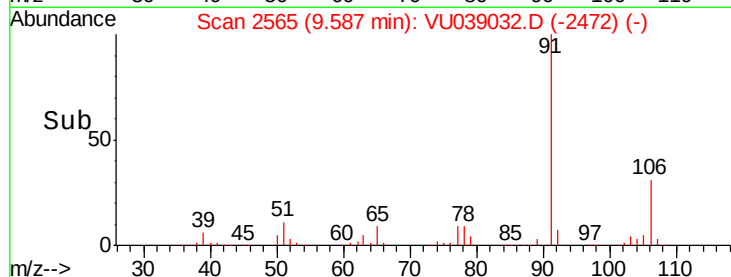
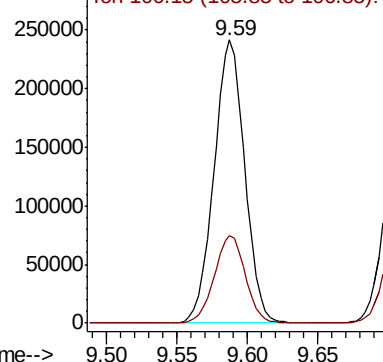
Ion Ratio Lower Upper

91 100

106 30.9 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU039007.D (-2550) (-)



#53

m,p-Xylene

Concen: 4.677 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VU039032.D

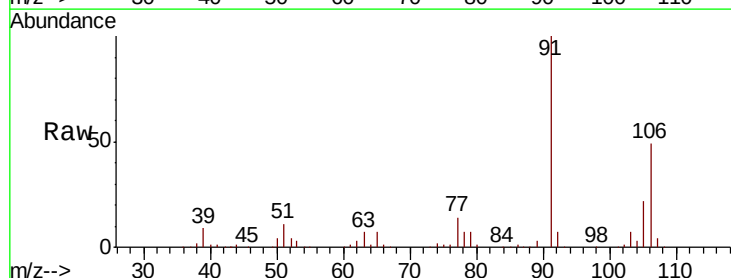
Acq: 23 Jun 2020 02:17

Tgt Ion: 106 Resp: 144213

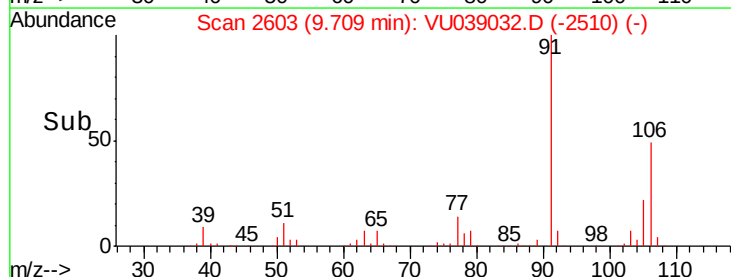
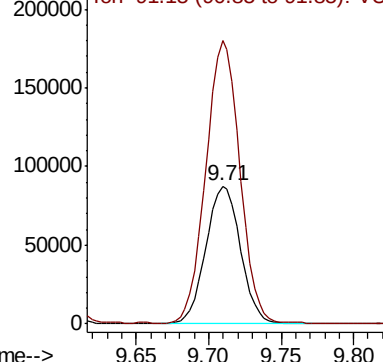
Ion Ratio Lower Upper

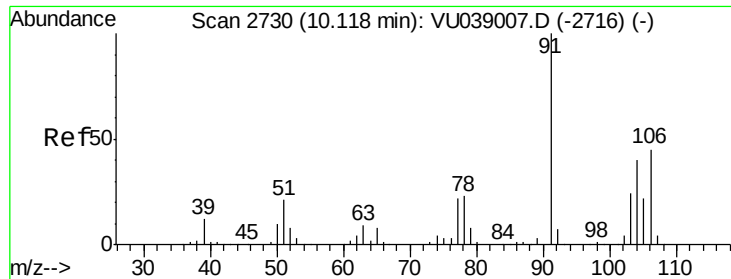
106 100

91 205.8 144.4 268.2



Abundance Ion 106.15 (105.85 to 106.85): VU039007.D (-2589) (-)

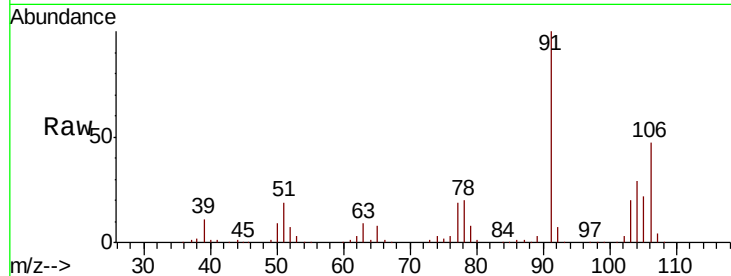




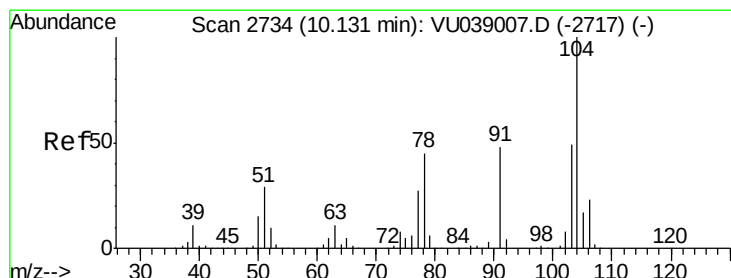
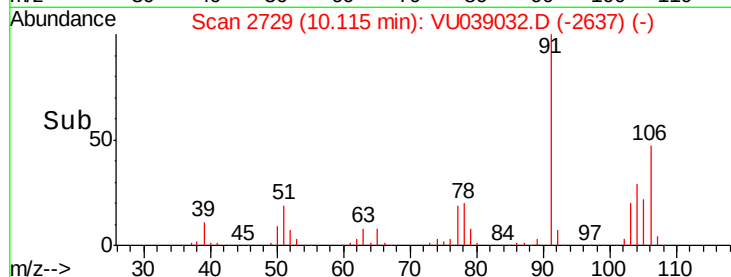
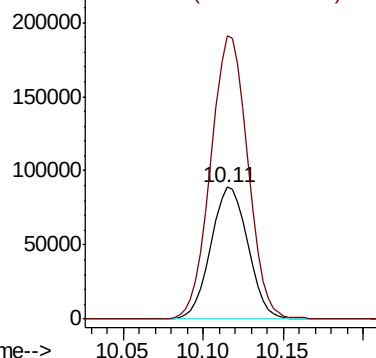
#54
o-Xylene
Concen: 4.821 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

Tot Ion:106 Resp: 141295
Ion Ratio Lower Upper
106 100
91 214.3 153.3 284.7

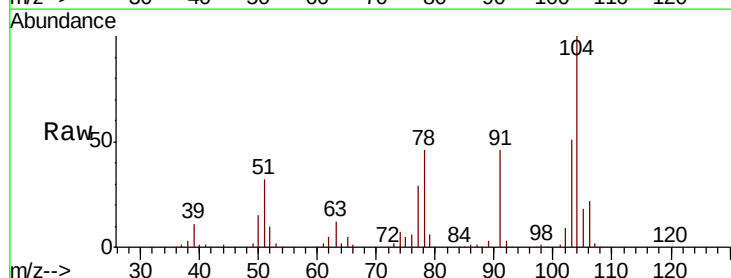


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

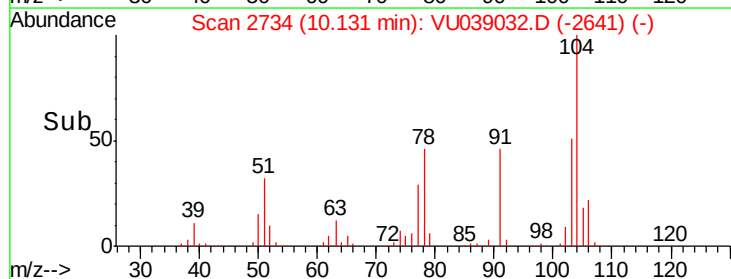
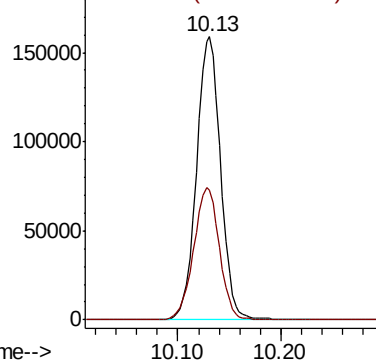


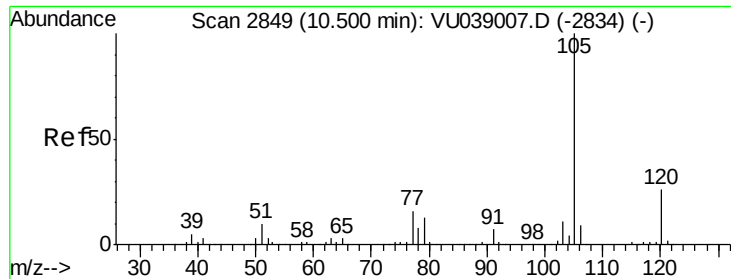
#55
Styrene
Concen: 5.124 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU039032.D
Acq: 23 Jun 2020 02:17

Tgt Ion:104 Resp: 258322
Ion Ratio Lower Upper
104 100
78 46.0 31.9 59.2



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





#56

Isopropylbenzene

Concen: 4.326 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

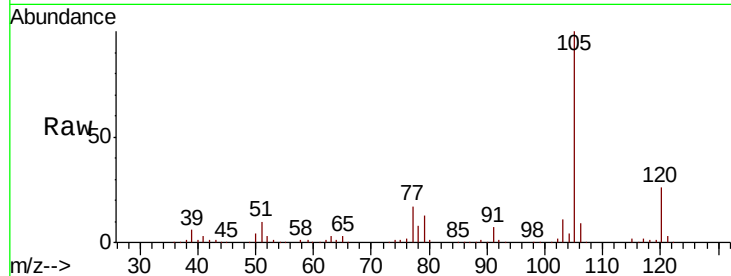
Tot Ion:105 Resp: 335699

Ion Ratio Lower Upper

105 100

120 26.0 20.1 30.1

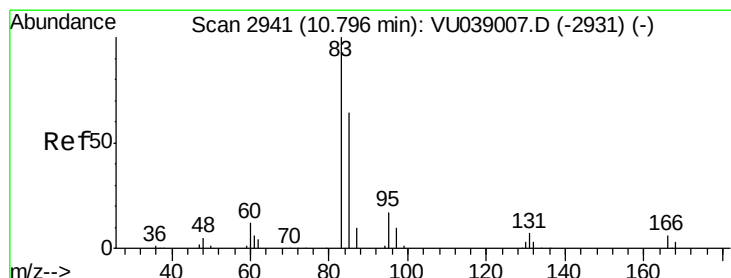
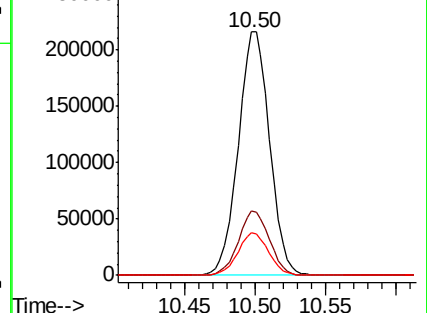
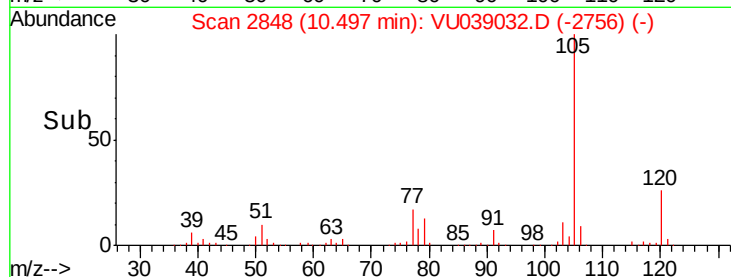
77 17.1 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.374 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

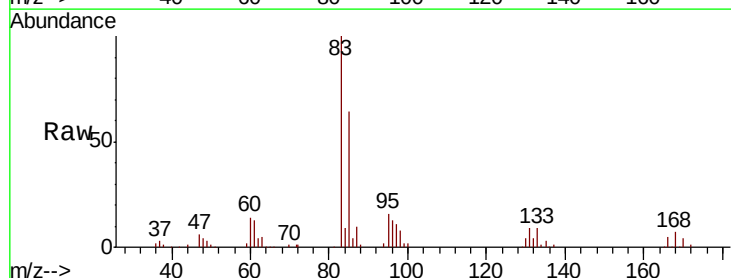
Tgt Ion: 83 Resp: 106662

Ion Ratio Lower Upper

83 100

85 63.9 45.2 84.0

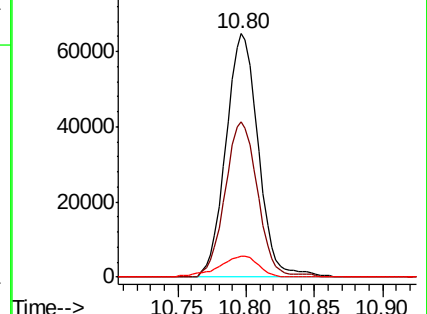
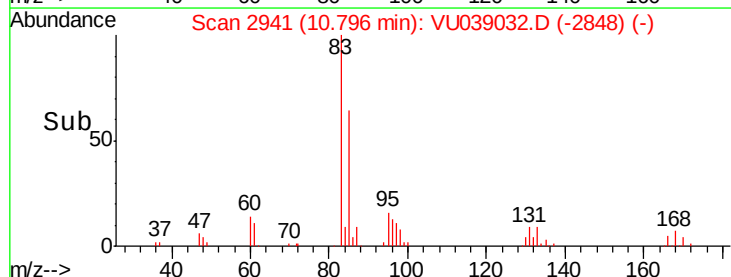
131 8.7 7.6 11.4

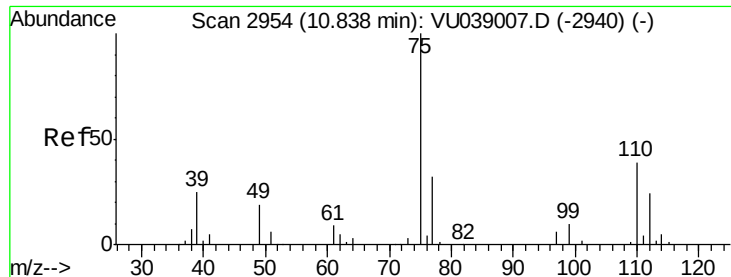


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.499 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

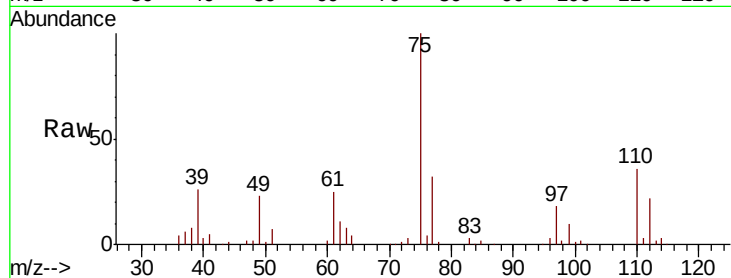
VSTD00511

Tot Ion: 75 Resp: 82418

Ion Ratio Lower Upper

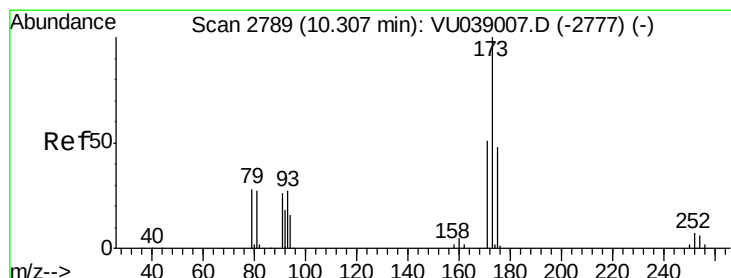
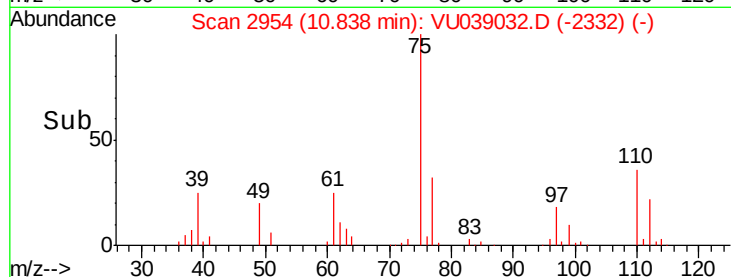
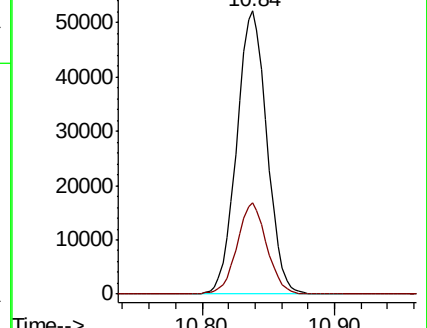
75 100

77 31.7 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU039007.D (-2940) (-)

Ion 77.00 (76.70 to 77.70): VU039007.D (-2940) (-)



#61

Bromoform

Concen: 5.534 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

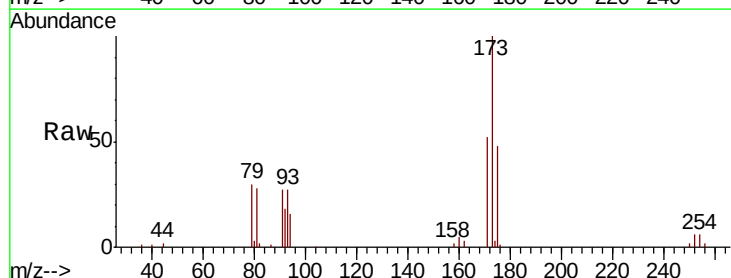
Tgt Ion: 173 Resp: 50507

Ion Ratio Lower Upper

173 100

175 46.3 38.1 57.1

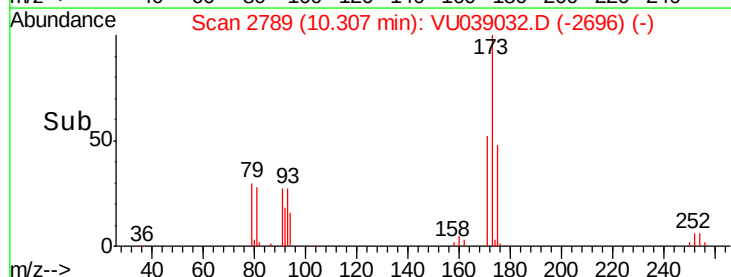
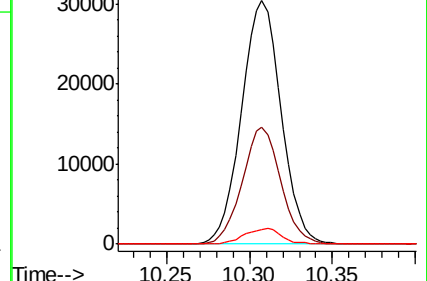
254 5.8 4.8 7.2

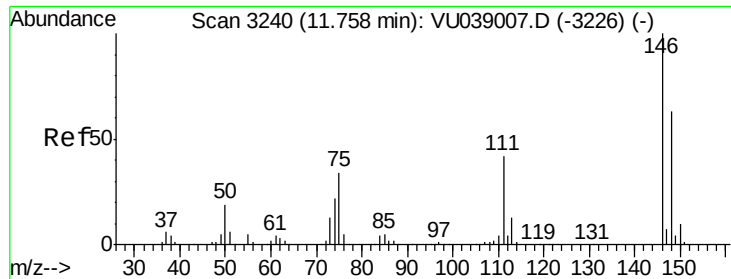


Abundance Ion 172.90 (172.60 to 173.60): VU039007.D (-2777) (-)

Ion 174.90 (174.60 to 175.60): VU039007.D (-2777) (-)

Ion 253.75 (253.45 to 254.45): VU039007.D (-2777) (-)





#62

1,3-Dichlorobenzene

Concen: 4.734 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

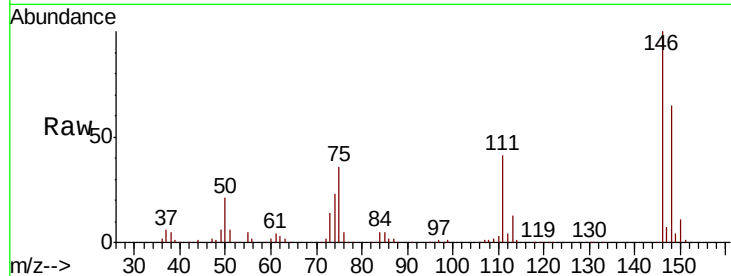
Tot Ion:146 Resp: 176844

Ion Ratio Lower Upper

146 100

111 40.9 29.3 54.5

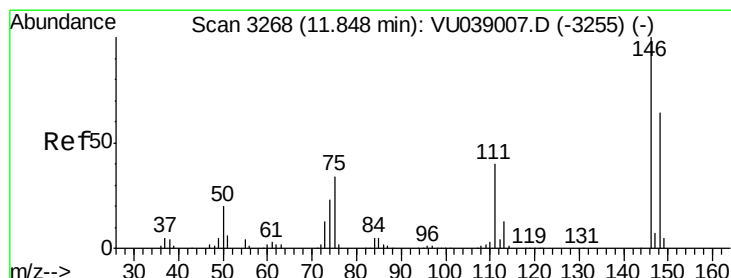
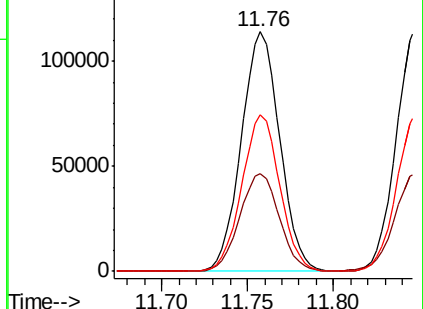
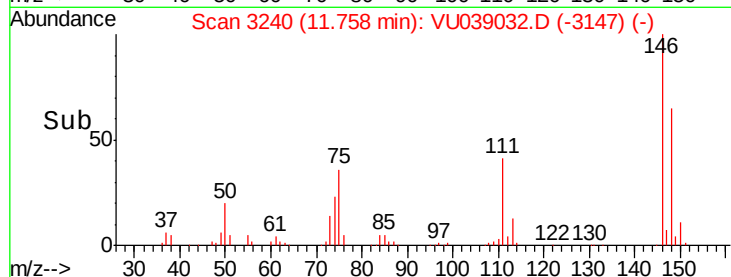
148 65.3 43.8 81.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.748 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. 0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

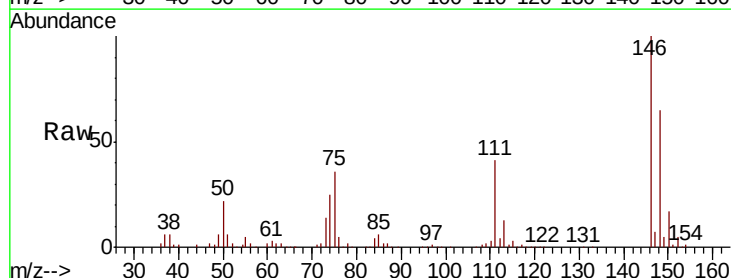
Tgt Ion:146 Resp: 182043

Ion Ratio Lower Upper

146 100

111 40.8 27.9 51.7

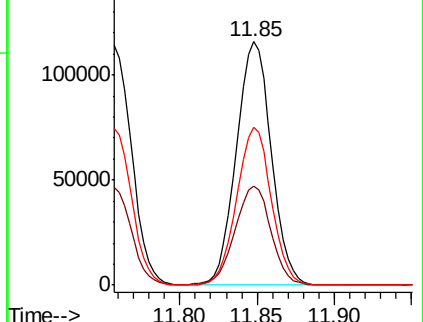
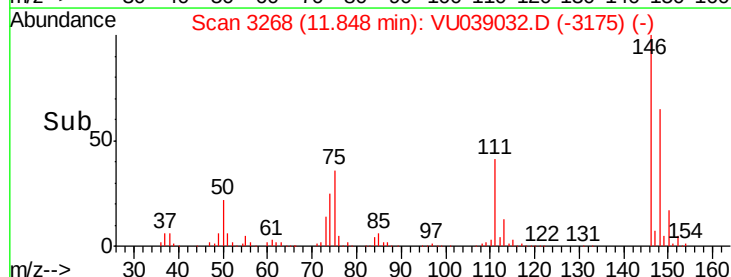
148 64.6 44.2 82.2

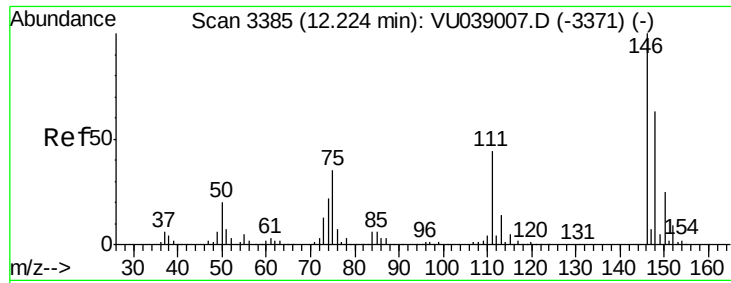


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

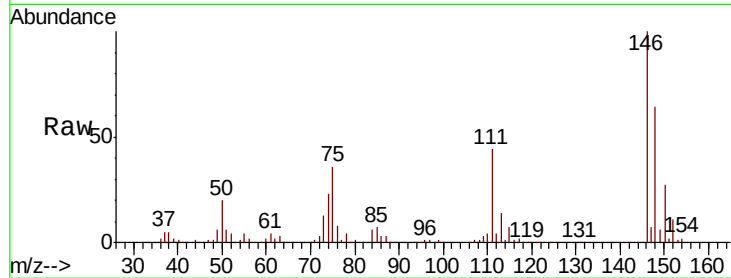




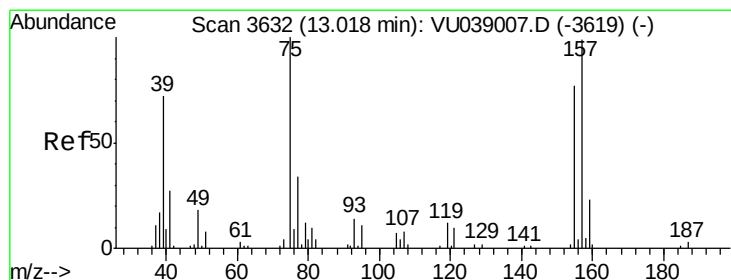
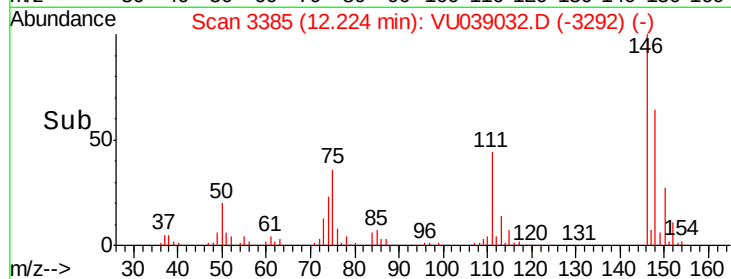
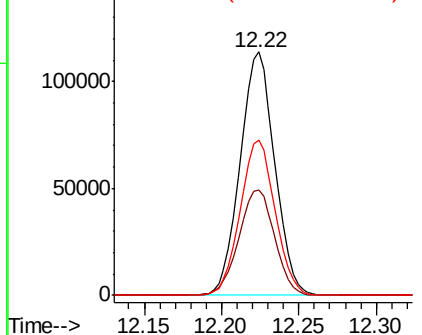
#65
 1,2-Dichlorobenzene
 Concen: 4.880 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. 0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion:146 Resp: 177187
 Ion Ratio Lower Upper
 146 100
 111 43.5 34.2 51.2
 148 63.9 51.4 77.0

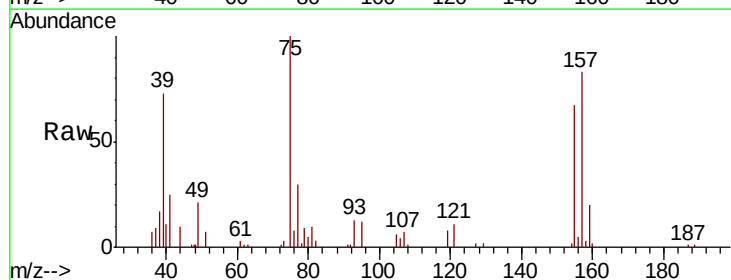


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

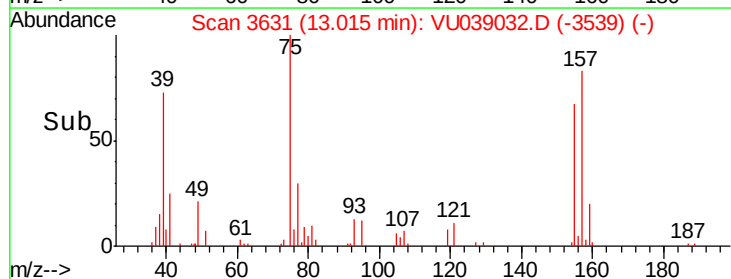
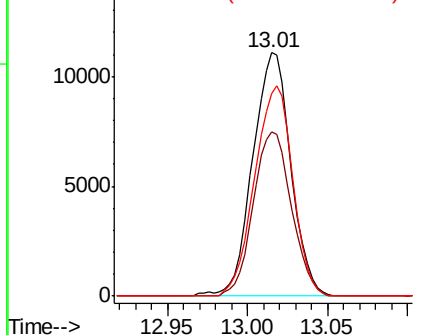


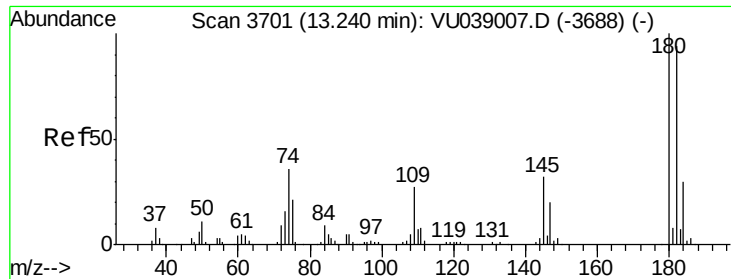
#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.501 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Tgt Ion: 75 Resp: 18062
 Ion Ratio Lower Upper
 75 100
 155 67.2 64.5 96.7
 157 83.4 78.2 117.2



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

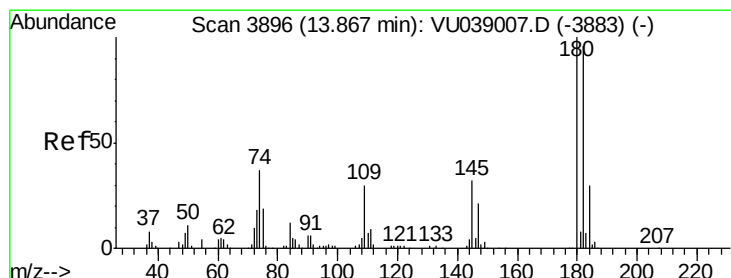
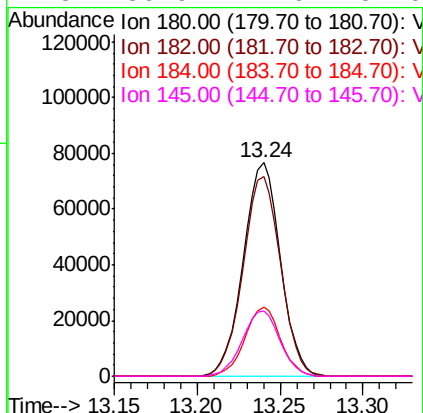
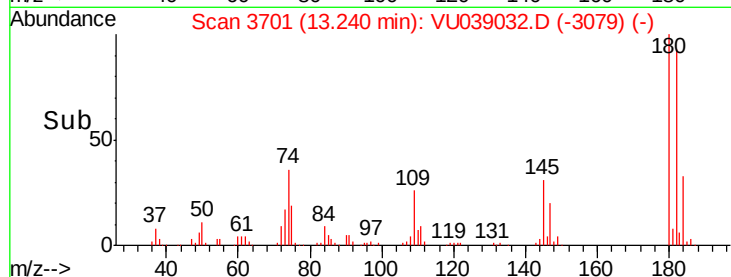
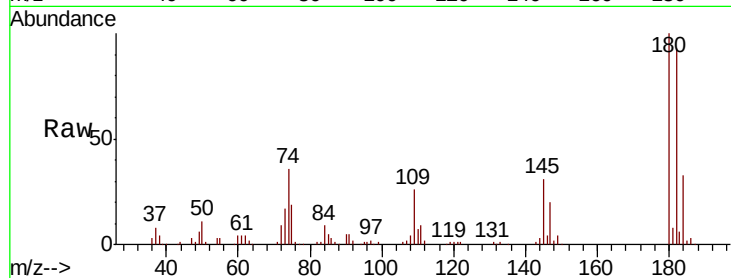




#67
 1,3,5-Trichlorobenzene
 Concen: 4.442 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

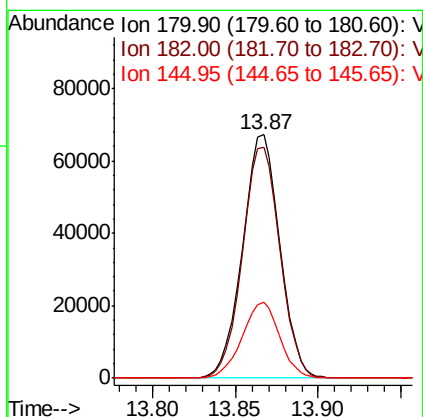
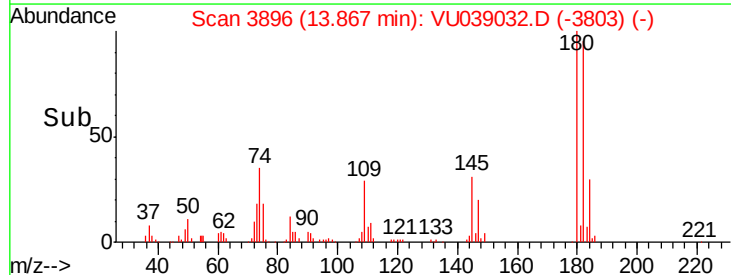
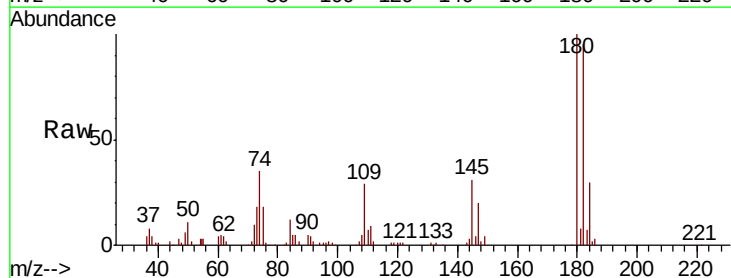
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

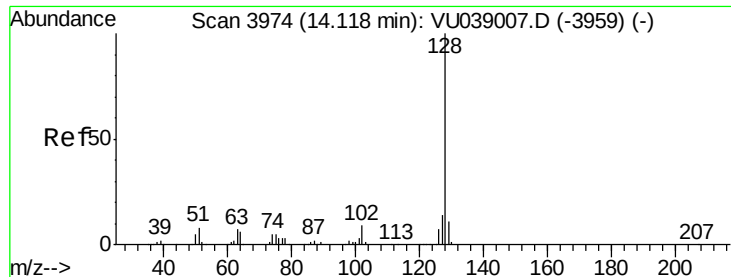
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	77.2	115.8
184	31.1	24.8	37.2
145	30.9	24.6	37.0



#68
 1,2,4-trichlorobenzene
 Concen: 4.551 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU039032.D
 Acq: 23 Jun 2020 02:17

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.1	112.7
145	31.3	25.0	37.4





#69

Naphthalene

Concen: 4.896 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

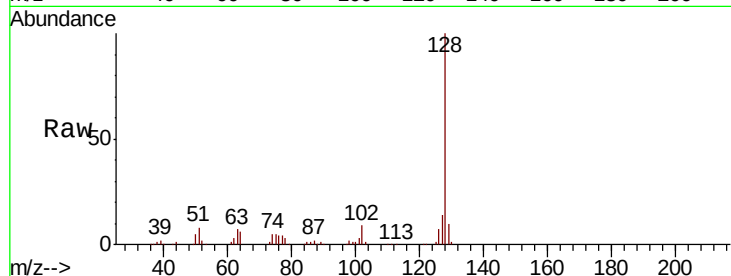
Tot Ion:128 Resp: 223890

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

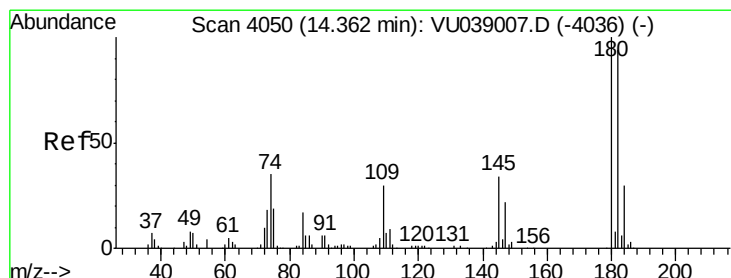
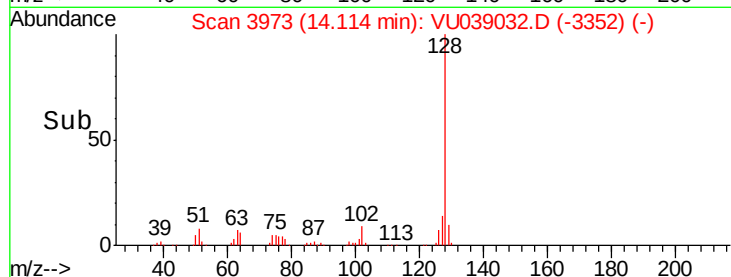
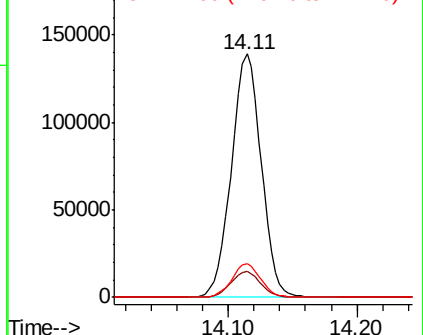
127 13.4 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.831 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU039032.D

Acq: 23 Jun 2020 02:17

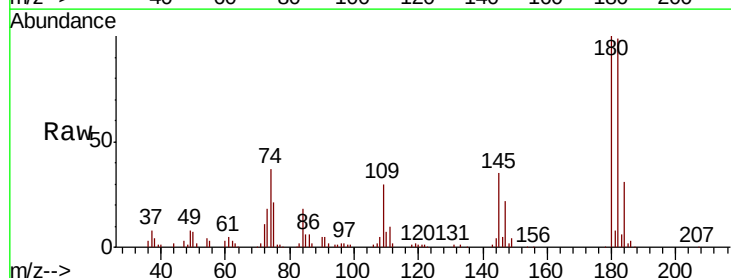
Tgt Ion:180 Resp: 104644

Ion Ratio Lower Upper

180 100

182 94.3 75.1 112.7

145 34.7 27.8 41.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

