

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040320\
 Data File : VU037565.D
 Acq On : 03 Apr 2020 12:25
 Operator : JC/MD
 Sample : VSTD01031
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

Quant Time: Apr 04 02:56:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 04 02:49:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	176506	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	167732	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	78578	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	13361	9.32	ug/L	0.00
7) Chloroethane-d5	1.93	69	10897	9.46	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	23921	9.93	ug/L	0.00
21) 2-Butanone-d5	4.67	46	22422	20.81	ug/L	0.00
24) Chloroform-d	5.11	84	23933	9.91	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	15582	9.72	ug/L	0.00
32) Benzene-d6	5.76	84	48277	9.93	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	15390	9.41	ug/L	0.00
41) Toluene-d8	7.92	98	44557	9.84	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	8695	9.79	ug/L	0.00
47) 2-Hexanone-d5	8.65	63	17420	20.10	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	23277	9.95	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.20	152	16496	10.29	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	11595	10.161 ug/L	99
3) Chloromethane	1.54	50	12271	10.138 ug/L	97
5) Vinyl chloride	1.62	62	12688	10.556 ug/L	96
6) Bromomethane	1.87	94	6053	10.211 ug/L	86
8) Chloroethane	1.95	64	7708	10.873 ug/L	98
9) Trichlorofluoromethane	2.16	101	17510	10.268 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	10719	11.021 ug/L	99
12) 1,1-Dichloroethene	2.60	96	10506	11.127 ug/L	92
13) Acetone	2.66	43	12439	19.973 ug/L	98
14) Carbon disulfide	2.82	76	28621	10.494 ug/L #	95
15) Methyl Acetate	2.98	43	15462	10.956 ug/L	95
16) Methylene chloride	3.08	84	12473	10.891 ug/L	97
17) trans-1,2-Dichloroethene	3.39	96	10535	10.362 ug/L	90
18) Methyl tert-butyl Ether	3.40	73	37244	10.450 ug/L	97
19) 1,1-Dichloroethane	3.91	63	20752	10.418 ug/L	98
20) cis-1,2-Dichloroethene	4.71	96	12596	10.758 ug/L	96
22) 2-Butanone	4.75	43	21006	20.665 ug/L	96
23) Bromochloromethane	5.02	128	6053	10.771 ug/L #	84
25) Chloroform	5.13	83	21220	10.217 ug/L	95
27) 1,2-Dichloroethane	5.83	62	16503	10.296 ug/L	99
29) Cyclohexane	5.42	56	17945	10.209 ug/L	95
30) 1,1,1-Trichloroethane	5.35	97	18108	10.185 ug/L	96
31) Carbon tetrachloride	5.56	117	15529	10.612 ug/L	96
33) Benzene	5.81	78	46454	10.570 ug/L	100
34) Trichloroethene	6.57	95	12221	10.634 ug/L	95
35) Methylcyclohexane	6.79	83	18974	10.686 ug/L	100
37) 1,2-Dichloropropane	6.83	63	13501	10.782 ug/L #	94
38) Bromodichloromethane	7.13	83	16793	10.311 ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	20300	10.379 ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	42456	20.894 ug/L	99

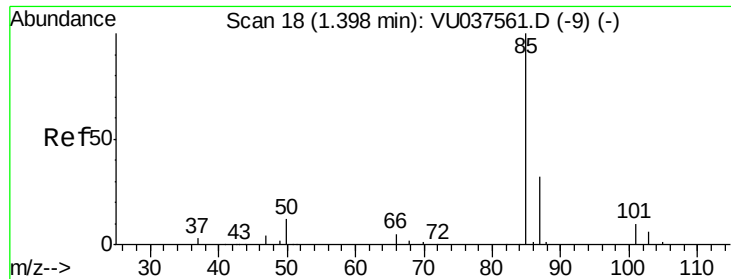
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040320\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	49934	10.499	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	19526	10.138	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	11951	10.453	ug/L	92
46) Tetrachloroethene	8.57	164	7998	10.365	ug/L	89
48) 2-Hexanone	8.71	43	34304	21.708	ug/L	98
49) Dibromochloromethane	8.83	129	12755	10.002	ug/L	94
50) 1,2-Dibromoethane	8.94	107	13300	10.578	ug/L	96
51) Chlorobenzene	9.47	112	29996	10.168	ug/L	94
52) Ethylbenzene	9.59	91	55293	10.281	ug/L	99
53) m,p-Xylene	9.71	106	20692	10.314	ug/L	97
54) o-xylene	10.12	106	20374	10.537	ug/L	96
55) Styrene	10.13	104	35591	10.395	ug/L	95
56) Isopropylbenzene	10.50	105	54892	10.470	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	21955	10.652	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	16762	10.413	ug/L	95
61) Bromoform	10.31	173	9567	10.650	ug/L #	97
62) 1,3-Dichlorobenzene	11.76	146	24668	10.872	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	24601	10.743	ug/L	96
65) 1,2-Dichlorobenzene	12.22	146	24324	10.827	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.01	75	5534	10.270	ug/L #	88
67) 1,3,5-Trichlorobenzene	13.24	180	16946	10.760	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	16175	10.774	ug/L	95
69) Naphthalene	14.11	128	70862	11.141	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	17526	11.556	ug/L	92

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



#2

Dichlorodifluoromethane

Concen: 10.161 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

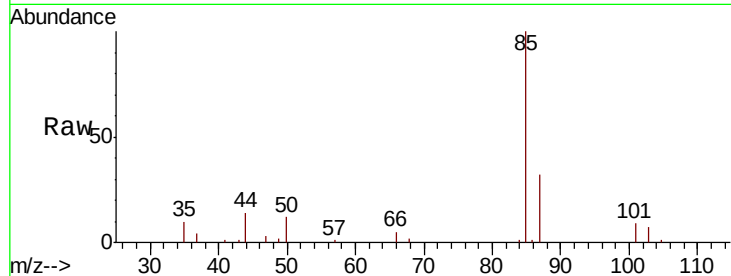
VSTD01031

Tot Ion: 85 Resp: 11595

Ion Ratio Lower Upper

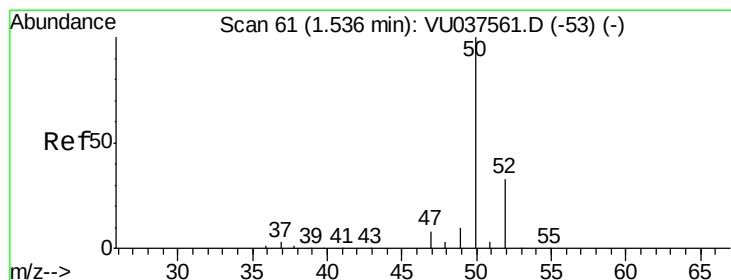
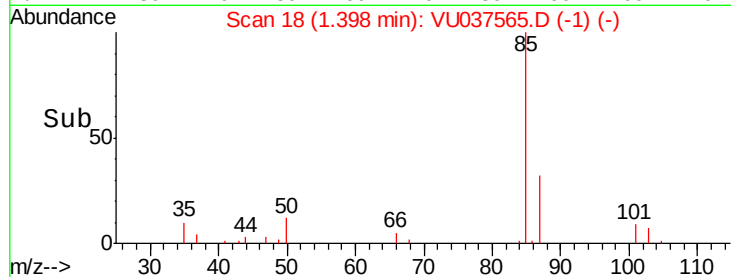
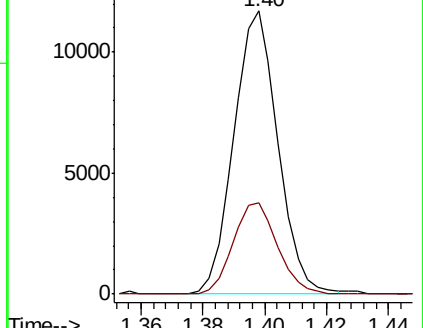
85 100

87 32.3 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037561.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037561.D (-9) (-)



#3

Chloromethane

Concen: 10.138 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037565.D

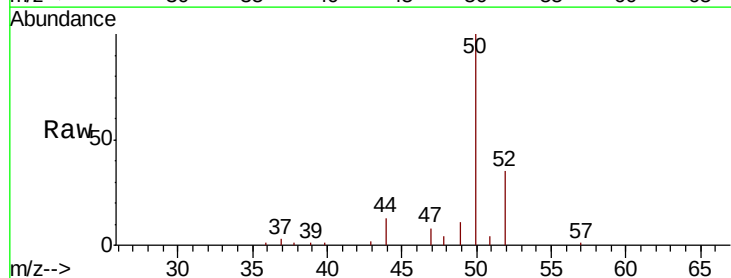
Acq: 03 Apr 2020 12:25

Tgt Ion: 50 Resp: 12271

Ion Ratio Lower Upper

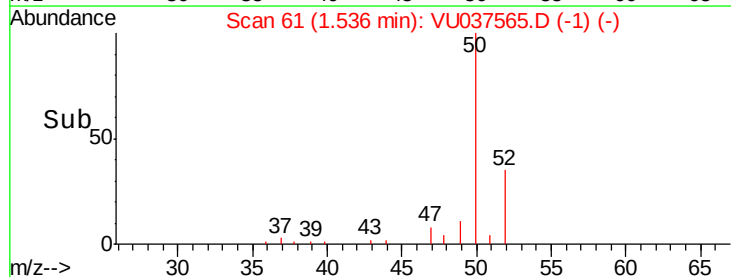
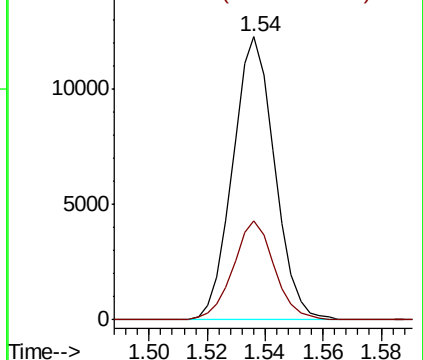
50 100

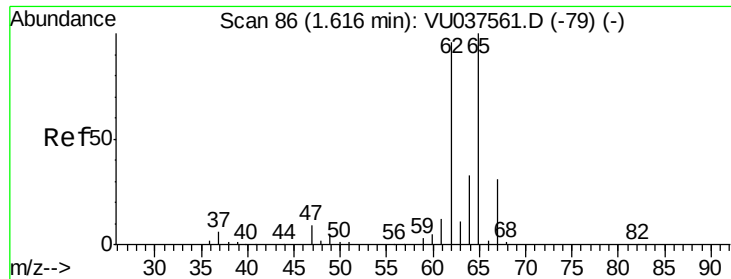
52 35.0 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU037561.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU037561.D (-53) (-)





#5

Vinyl chloride

Concen: 10.556 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

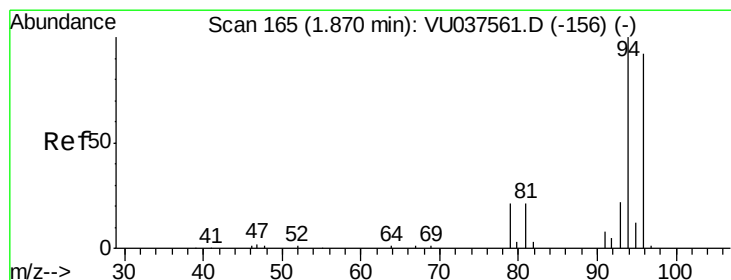
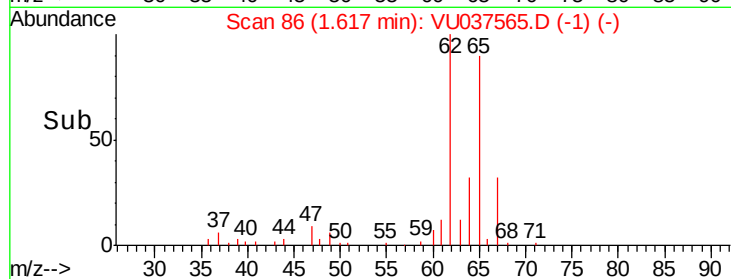
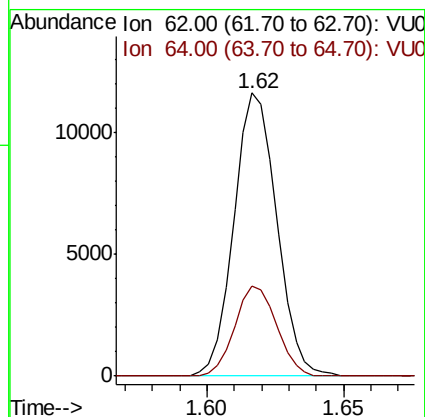
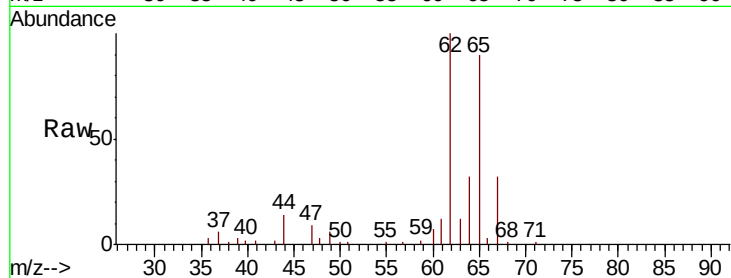
VSTD01031

Tot Ion: 62 Resp: 12688

Ion Ratio Lower Upper

62 100

64 32.0 24.0 44.6



#6

Bromomethane

Concen: 10.211 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037565.D

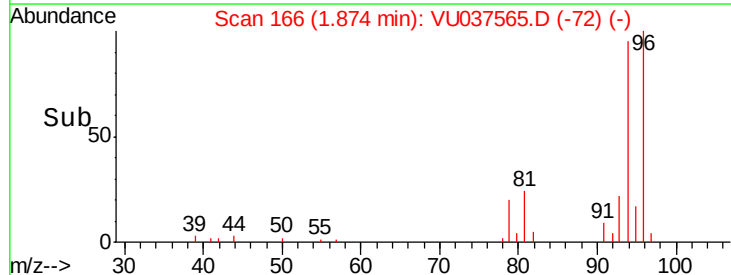
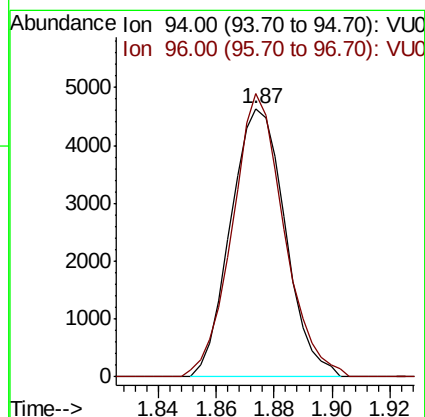
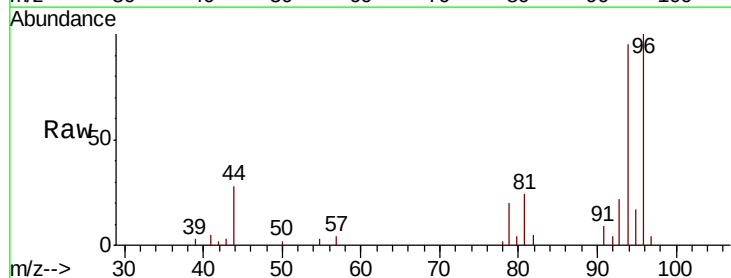
Acq: 03 Apr 2020 12:25

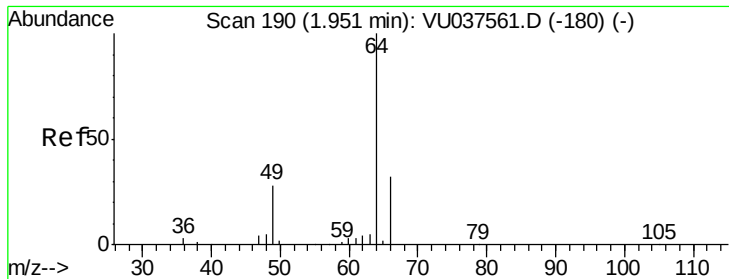
Tgt Ion: 94 Resp: 6053

Ion Ratio Lower Upper

94 100

96 105.6 64.4 119.6





#8

Chloroethane

Concen: 10.873 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

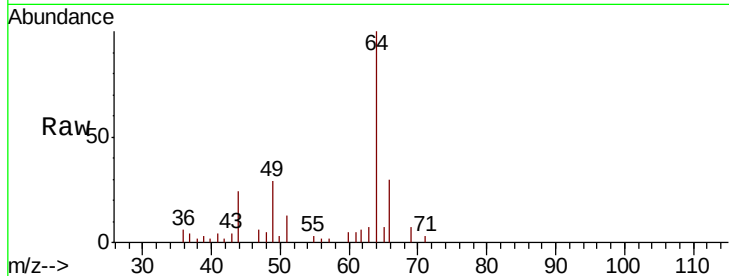
VSTD01031

Tot Ion: 64 Resp: 7708

Ion Ratio Lower Upper

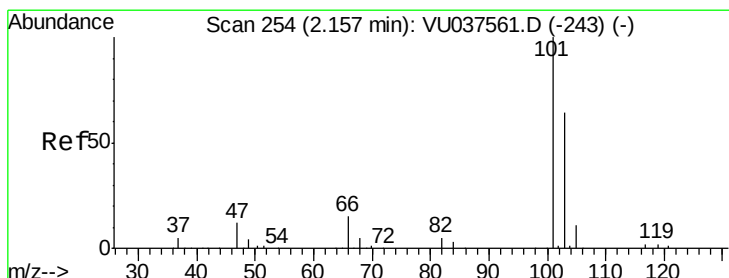
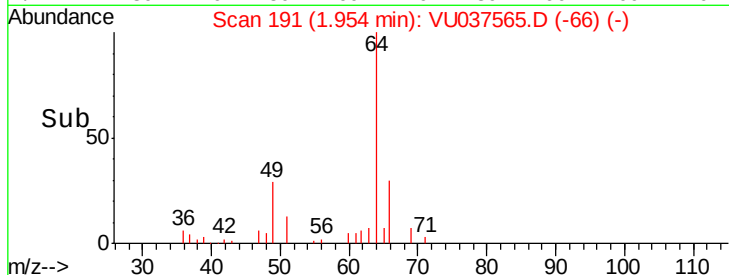
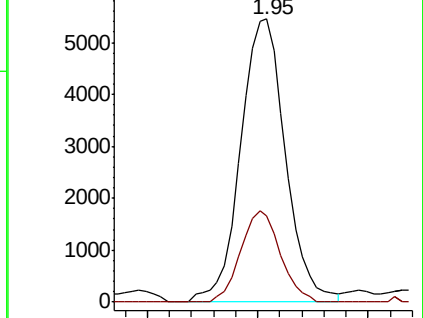
64 100

66 30.5 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VU037561.D (-180) (-)

Ion 66.00 (65.70 to 66.70): VU037561.D (-180) (-)



#9

Trichlorofluoromethane

Concen: 10.268 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037565.D

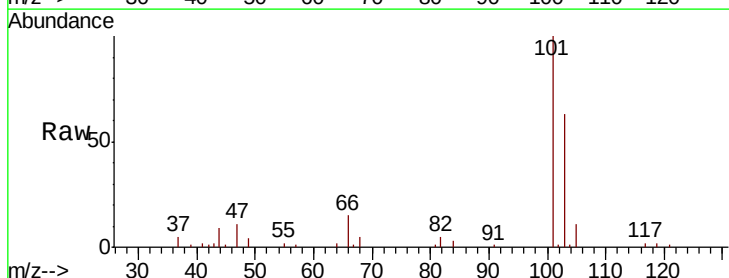
Acq: 03 Apr 2020 12:25

Tgt Ion:101 Resp: 17510

Ion Ratio Lower Upper

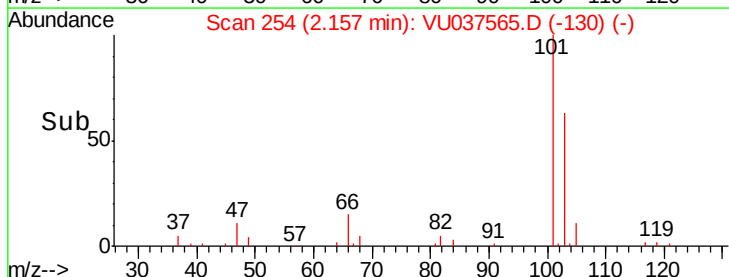
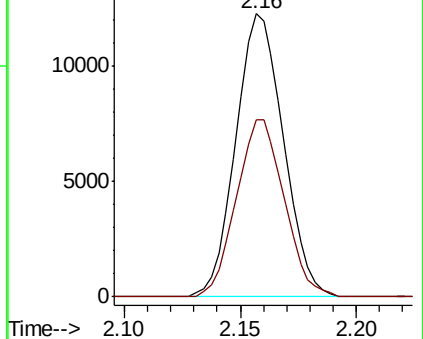
101 100

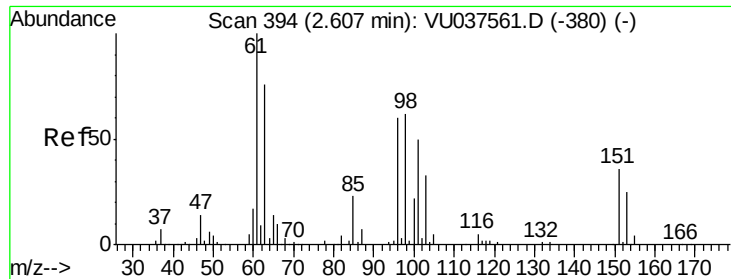
103 62.7 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU037561.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU037561.D (-243) (-)





#10

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

Concen: 11.021 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

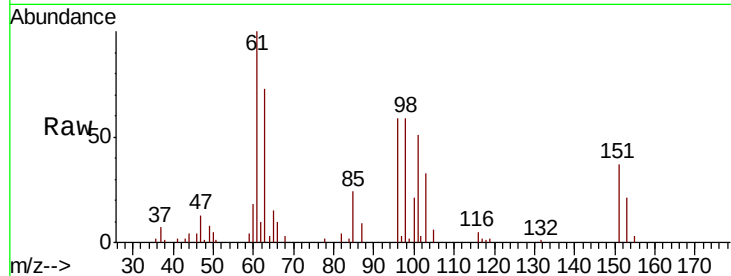
Tot Ion:101 Resp: 10719

Ion Ratio Lower Upper

101 100

85 42.4 35.4 53.2

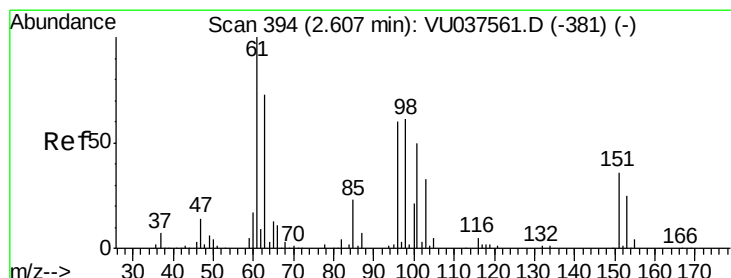
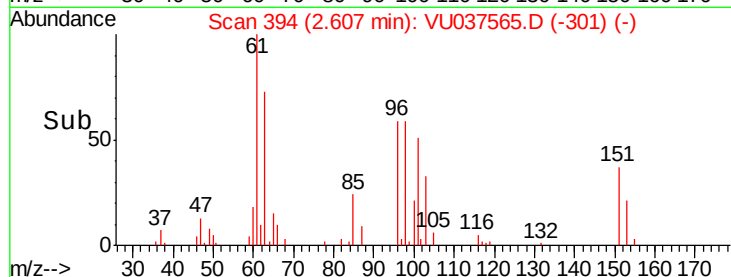
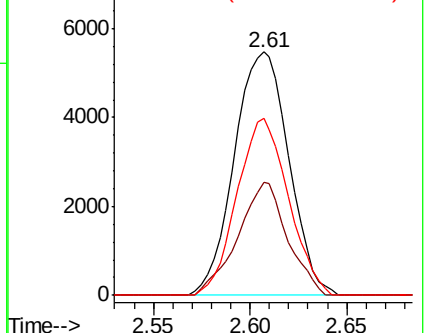
151 68.7 55.3 82.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 11.127 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

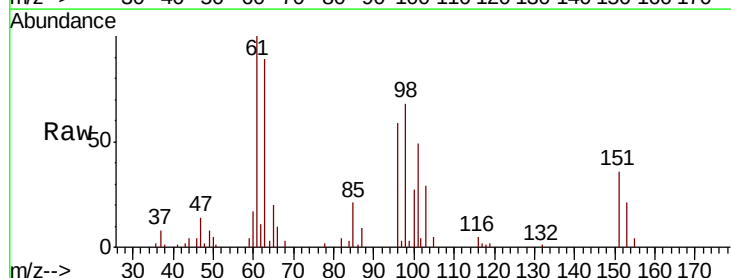
Tgt Ion: 96 Resp: 10506

Ion Ratio Lower Upper

96 100

61 169.3 117.2 217.8

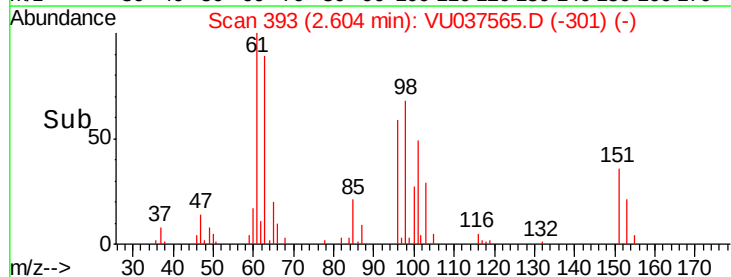
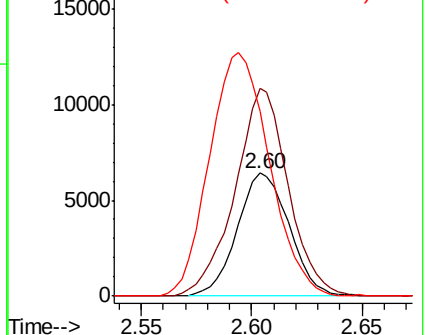
63 150.3 90.9 168.9

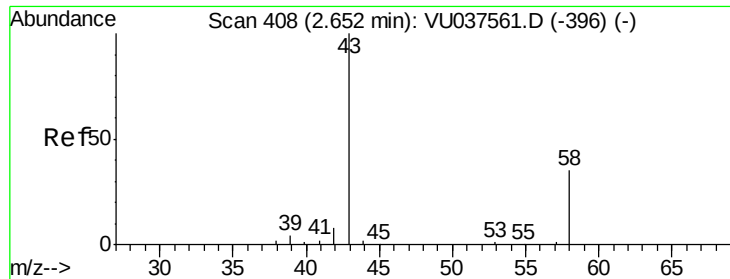


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 19.973 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

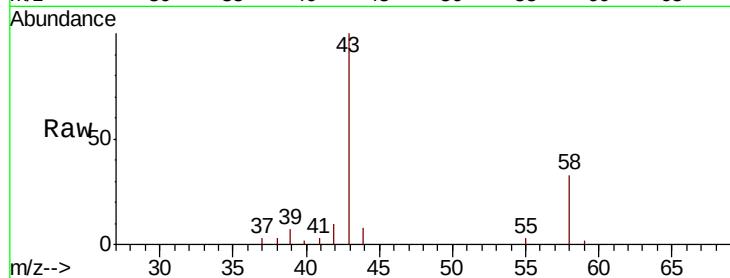
VSTD01031

Tot Ion: 43 Resp: 12439

Ion Ratio Lower Upper

43 100

58 35.5 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VU037561.D (-396) (-)

Ion 58.00 (57.70 to 58.70): VU037561.D (-396) (-)

2.66

8000

6000

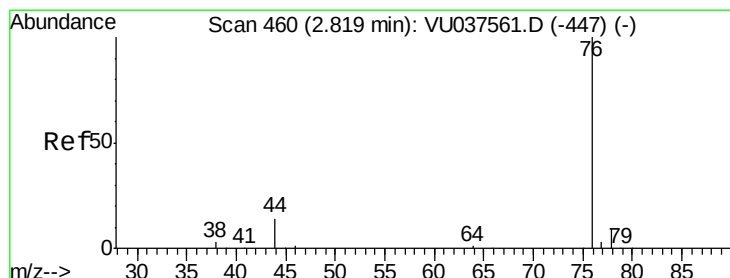
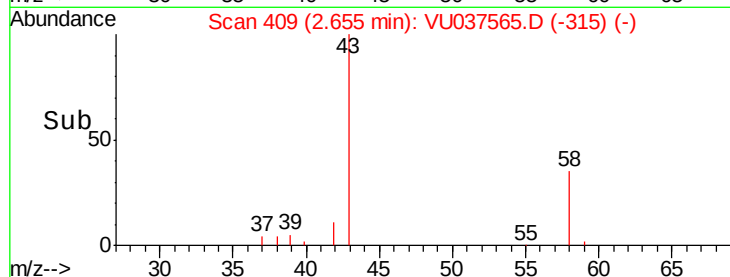
4000

2000

0

2.60 2.65 2.70

Time-->



#14

Carbon disulfide

Concen: 10.494 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037565.D

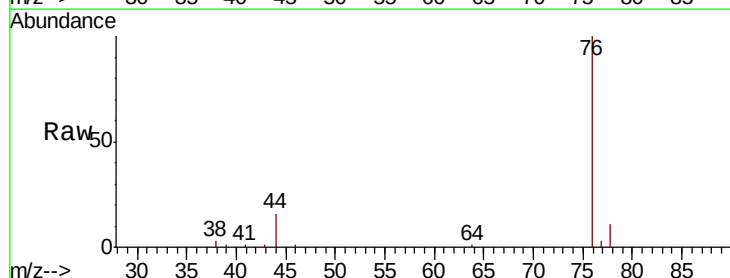
Acq: 03 Apr 2020 12:25

Tgt Ion: 76 Resp: 28621

Ion Ratio Lower Upper

76 100

78 10.7 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VU037561.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU037561.D (-447) (-)

2.82

20000

15000

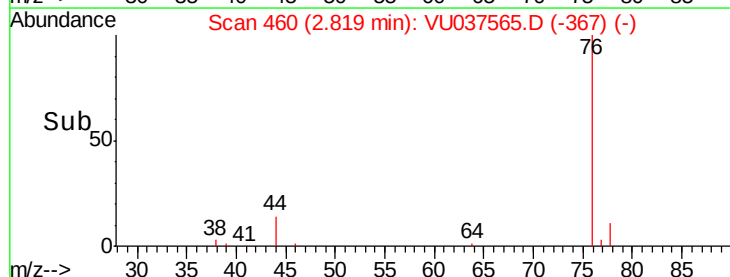
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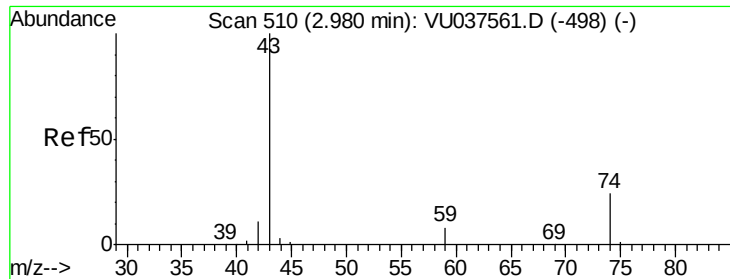
5000

0

2.75 2.80 2.85

Time-->





#15

Methvl Acetate

Concen: 10.956 ug/L

RT: 2.98 min Scan# 511

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

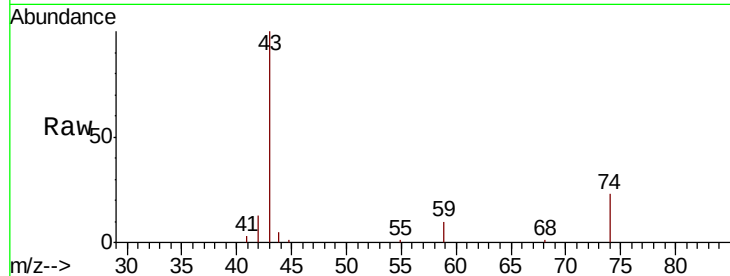
VSTD01031

Tot Ion: 43 Resp: 15462

Ion Ratio Lower Upper

43 100

74 21.1 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VU037565.D (-417) (-)

Ion 74.00 (73.70 to 74.70): VU037565.D (-417) (-)

2.98

8000

6000

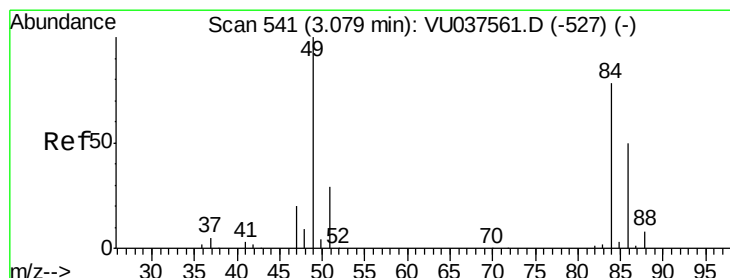
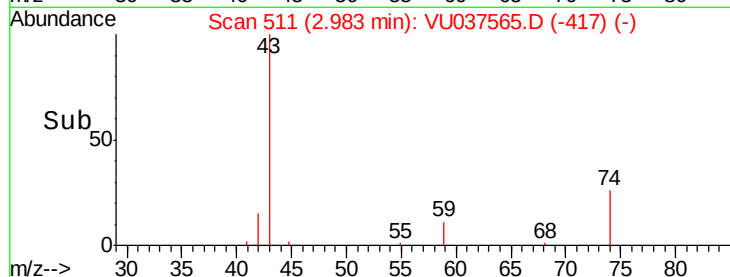
4000

2000

0

Time-->

2.90 2.95 3.00 3.05



#16

Methylene chloride

Concen: 10.891 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

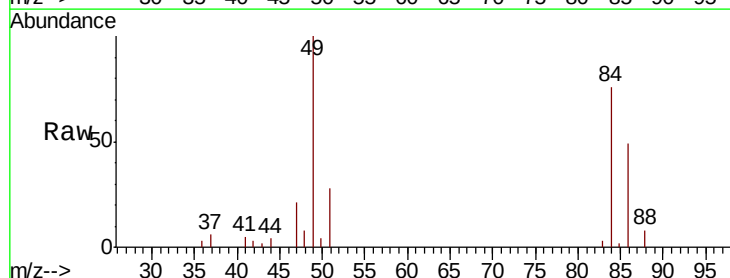
Tgt Ion: 84 Resp: 12473

Ion Ratio Lower Upper

84 100

86 65.4 44.8 83.2

49 132.3 89.7 166.5



Abundance Ion 84.00 (83.70 to 84.70): VU037565.D (-448) (-)

Ion 86.00 (85.70 to 86.70): VU037565.D (-448) (-)

Ion 49.00 (48.70 to 49.70): VU037565.D (-448) (-)

3.08

10000

8000

6000

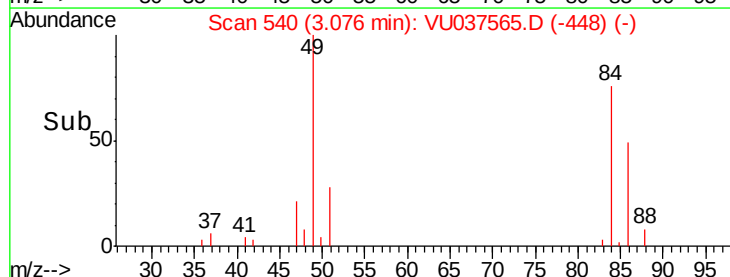
4000

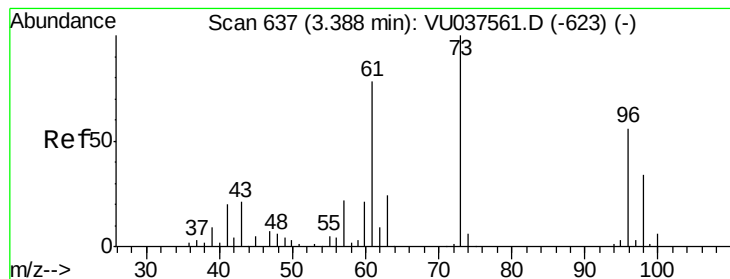
2000

0

Time-->

3.00 3.05 3.10 3.15





#17

trans-1,2-Dichloroethene

Concen: 10.362 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

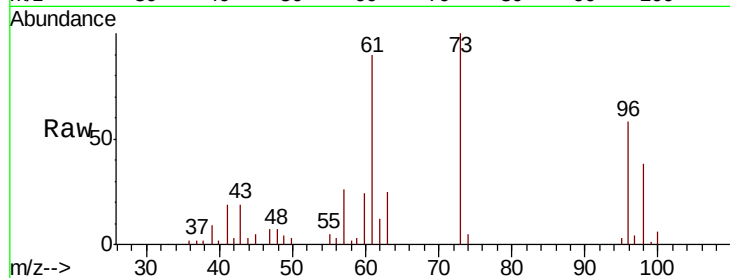
Tot Ion: 96 Resp: 10535

Ion Ratio Lower Upper

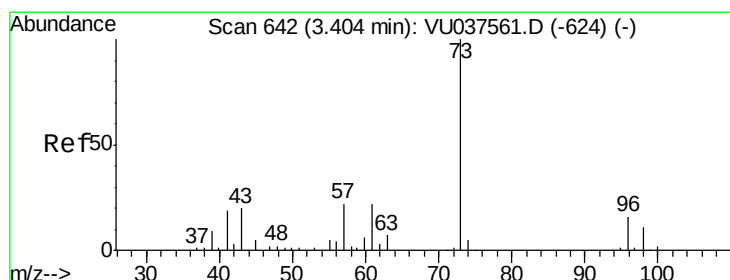
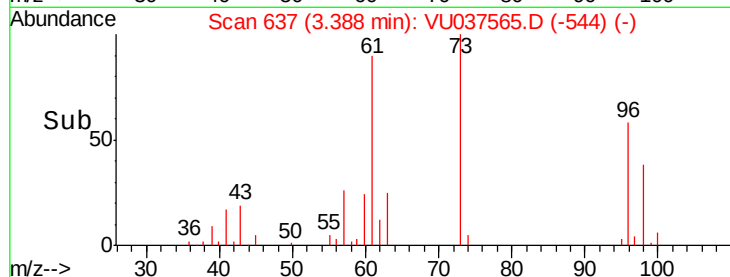
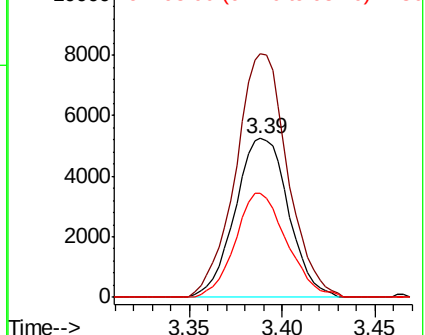
96 100

61 153.6 97.3 180.7

98 65.8 42.7 79.3



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: 10.450 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

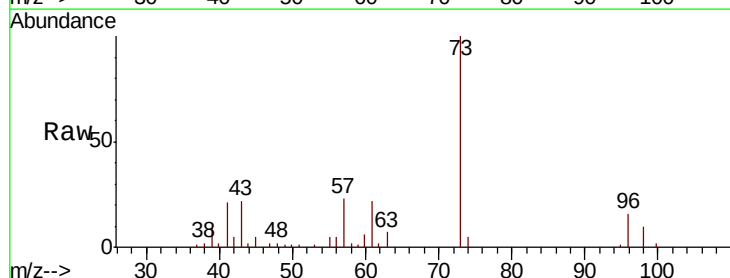
Tgt Ion: 73 Resp: 37244

Ion Ratio Lower Upper

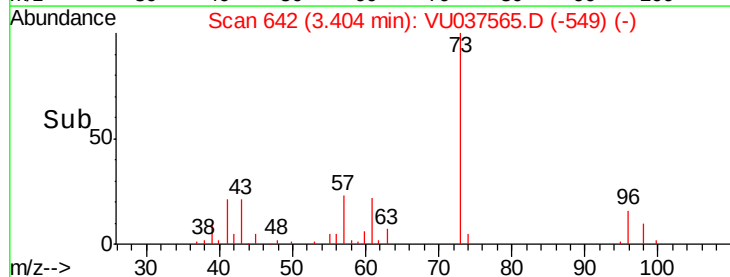
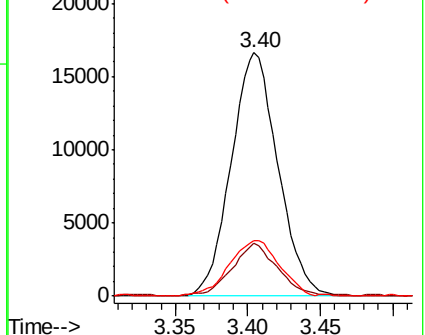
73 100

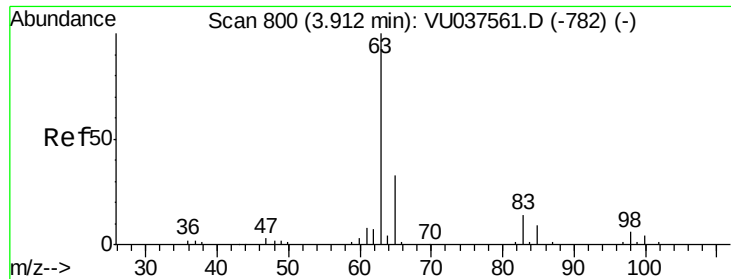
43 21.2 16.4 24.6

57 24.4 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

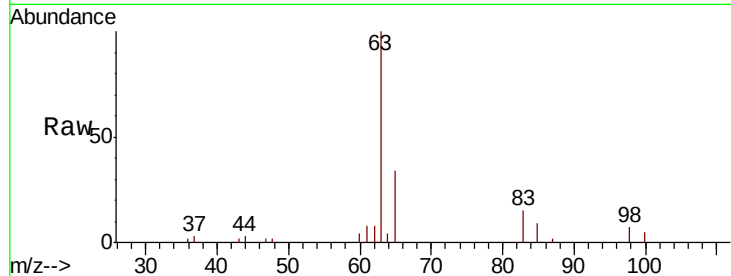




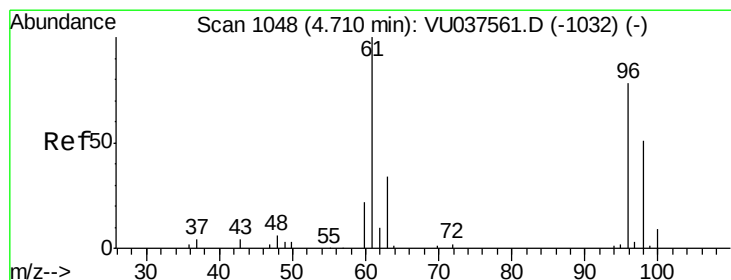
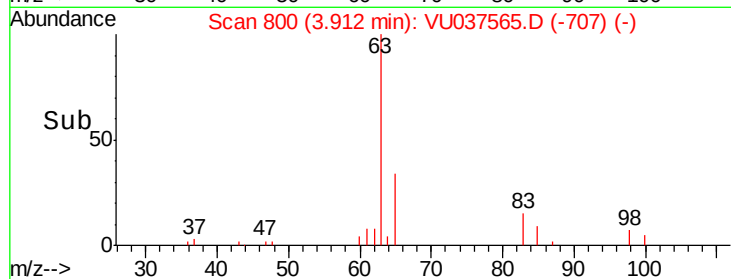
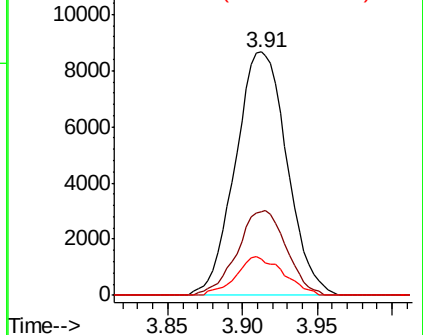
#19
 1,1-Dichloroethane
 Concen: 10.418 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

Tot Ion: 63 Resp: 20752
 Ion Ratio Lower Upper
 63 100
 65 34.4 23.2 43.2
 83 14.9 9.6 17.8

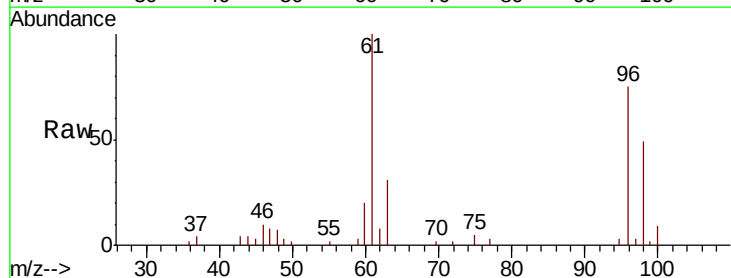


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

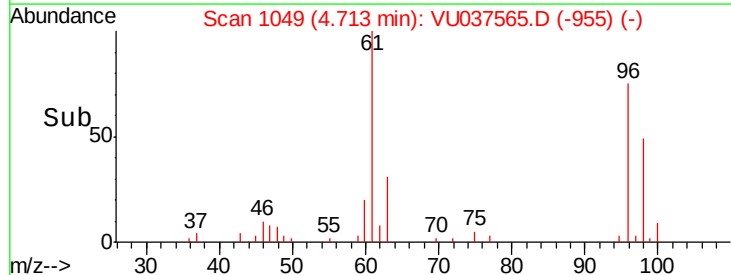
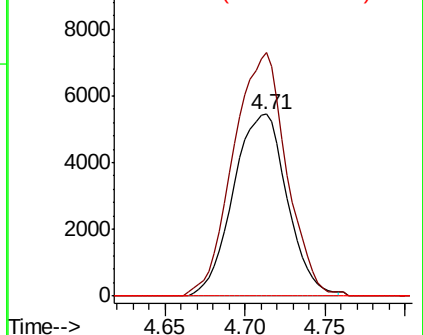


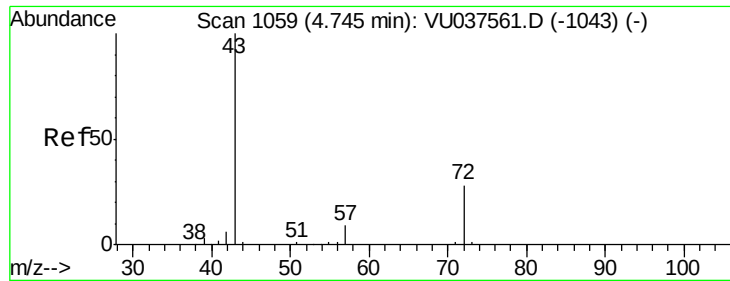
#20
 cis-1,2-Dichloroethene
 Concen: 10.758 ug/L
 RT: 4.71 min Scan# 1049
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

Tgt Ion: 96 Resp: 12596
 Ion Ratio Lower Upper
 96 100
 61 133.8 90.2 167.6
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 20.665 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

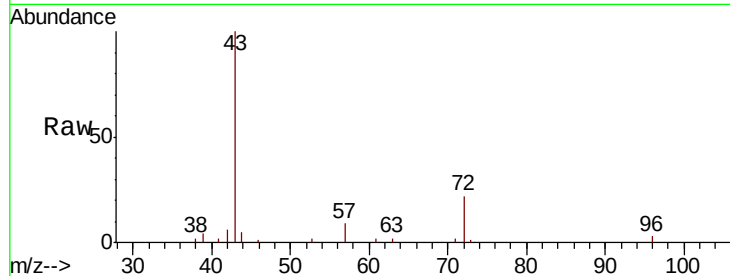
VSTD01031

Tot Ion: 43 Resp: 21006

Ion Ratio Lower Upper

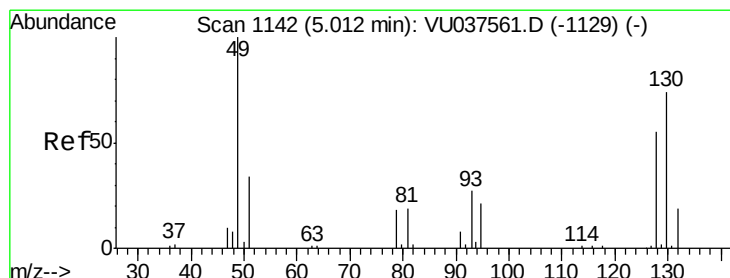
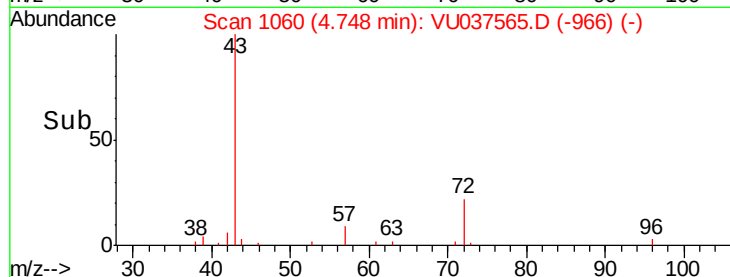
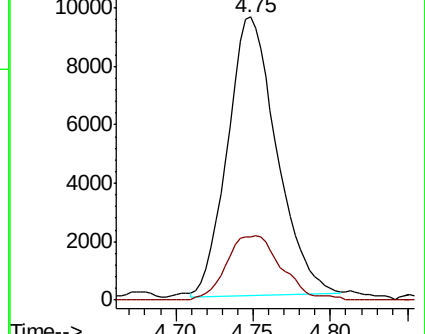
43 100

72 25.3 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU037565.D (-1043) (-)

Ion 72.00 (71.70 to 72.70): VU037565.D (-1043) (-)



#23

Bromochloromethane

Concen: 10.771 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Tgt Ion: 128 Resp: 6053

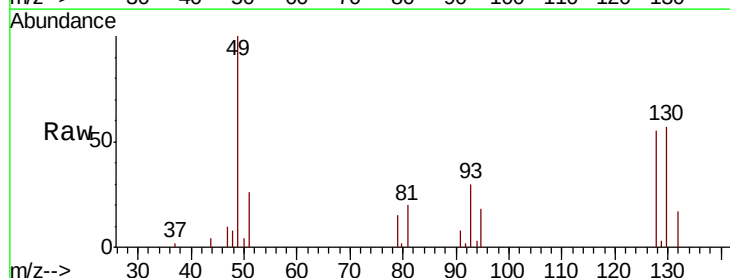
Ion Ratio Lower Upper

128 100

49 174.7 127.3 236.5

130 100.1 93.9 174.5

51 45.8 49.4 74.0#

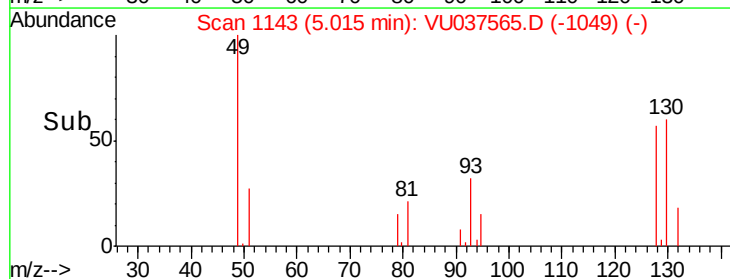
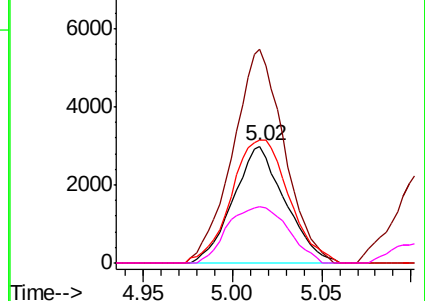


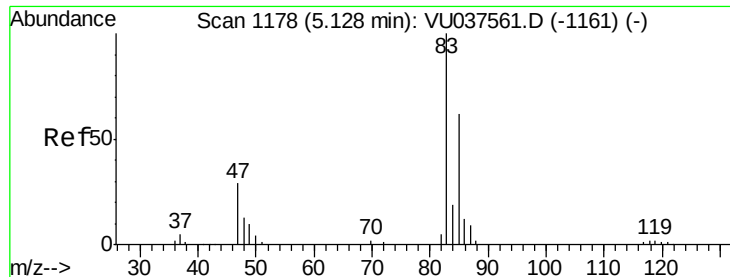
Abundance Ion 128.00 (127.70 to 128.70): VU037565.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037565.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037565.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037565.D (-1049) (-)

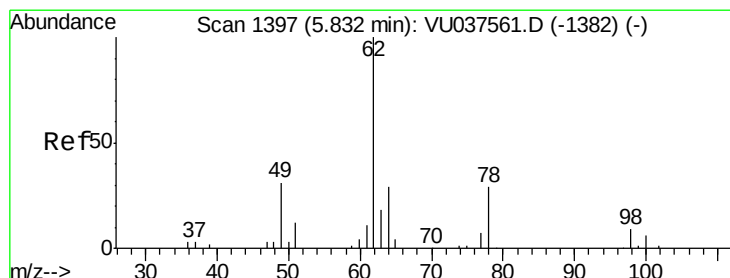
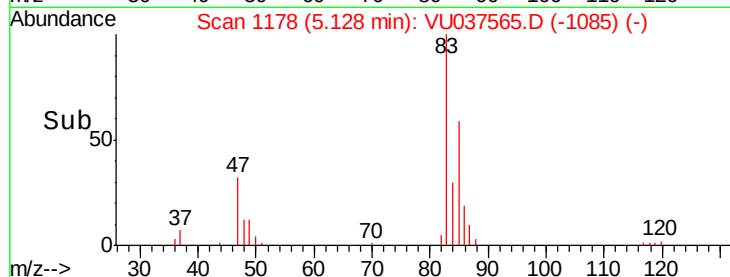
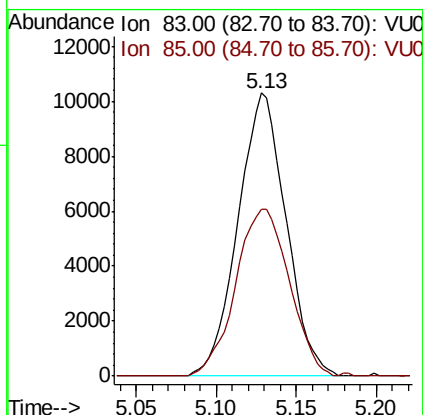
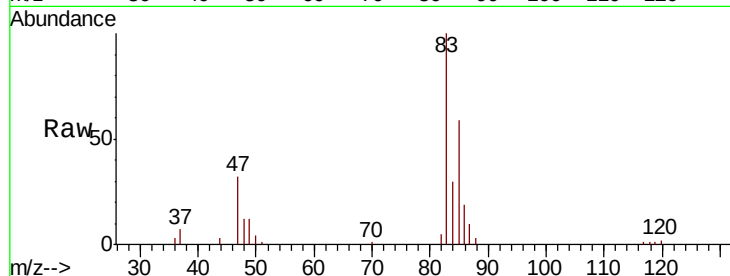




#25
Chloroform
Concen: 10.217 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037565.D
Acq: 03 Apr 2020 12:25

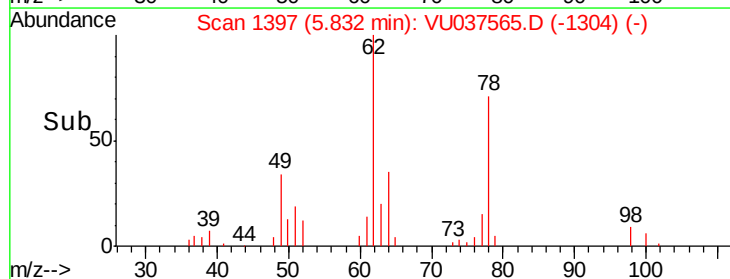
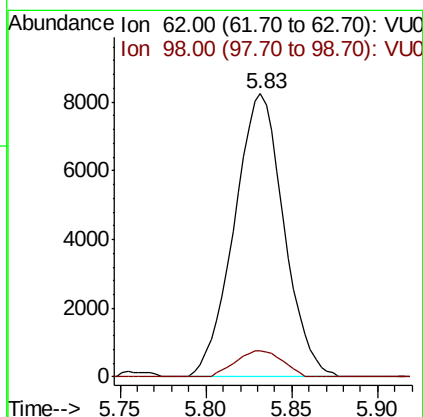
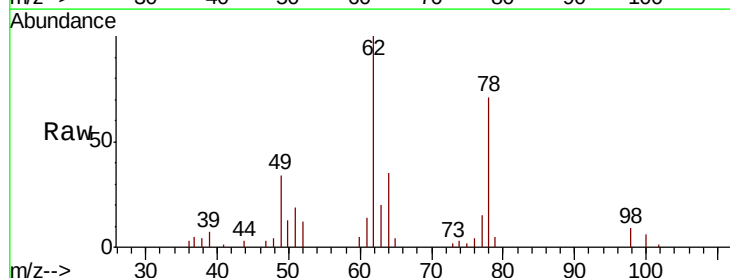
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

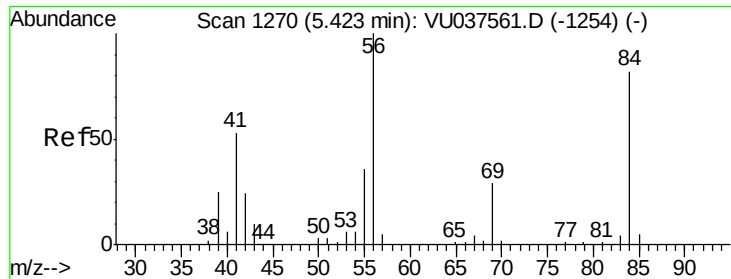
Tot Ion: 83 Resp: 21220
Ion Ratio Lower Upper
83 100
85 58.8 43.7 81.1



#27
1,2-Dichloroethane
Concen: 10.296 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037565.D
Acq: 03 Apr 2020 12:25

Tgt Ion: 62 Resp: 16503
Ion Ratio Lower Upper
62 100
98 9.2 7.1 10.7

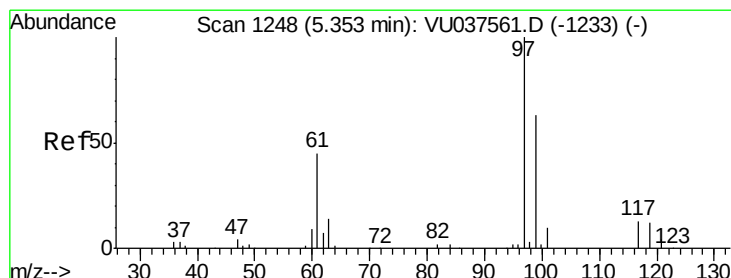
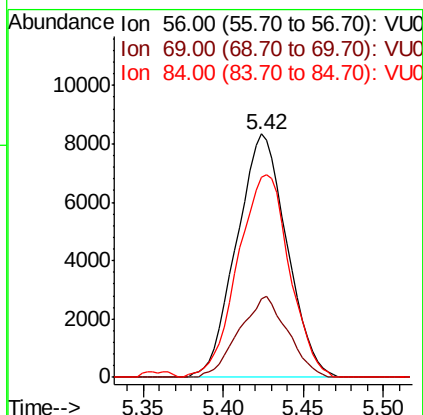
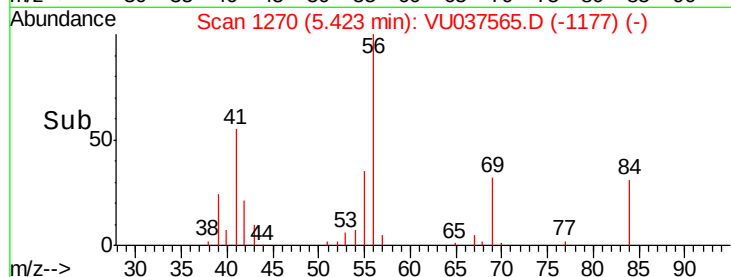
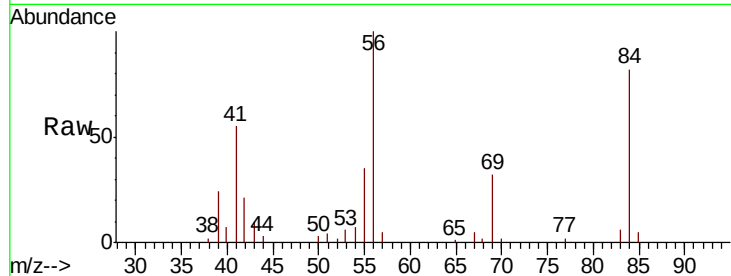




#29
Cyclohexane
Concen: 10.209 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037565.D
Acq: 03 Apr 2020 12:25

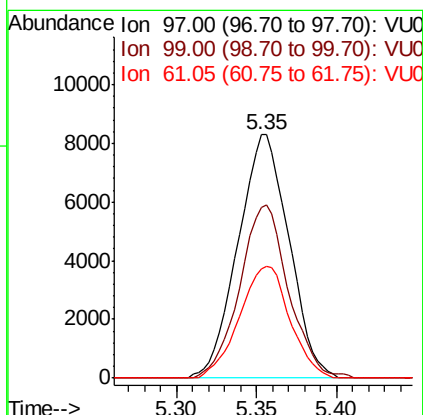
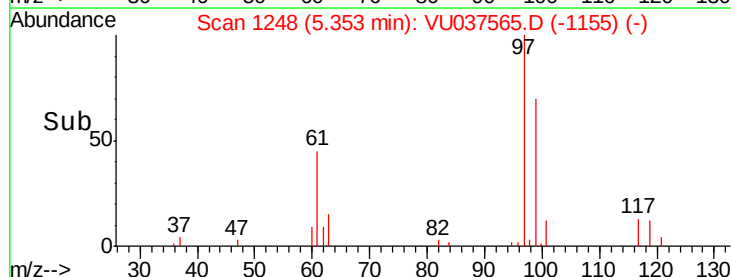
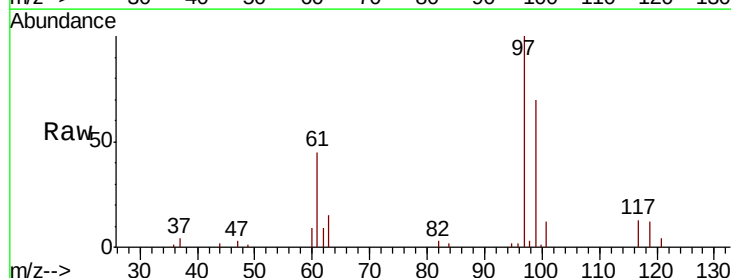
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

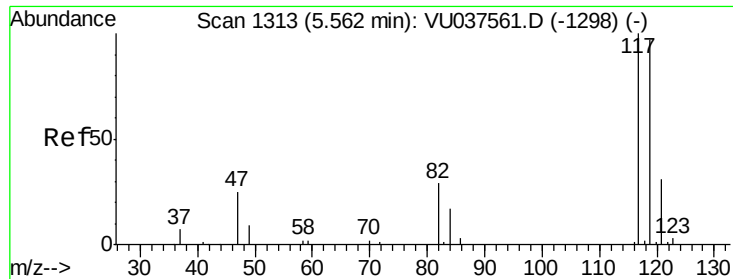
Tot Ion: 56 Resp: 17945
Ion Ratio Lower Upper
56 100
69 32.3 23.8 35.6
84 85.7 65.4 98.0



#30
1,1,1-Trichloroethane
Concen: 10.185 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU037565.D
Acq: 03 Apr 2020 12:25

Tgt Ion: 97 Resp: 18108
Ion Ratio Lower Upper
97 100
99 68.1 50.6 75.8
61 45.4 35.8 53.8





#31

Carbon tetrachloride

Concen: 10.612 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

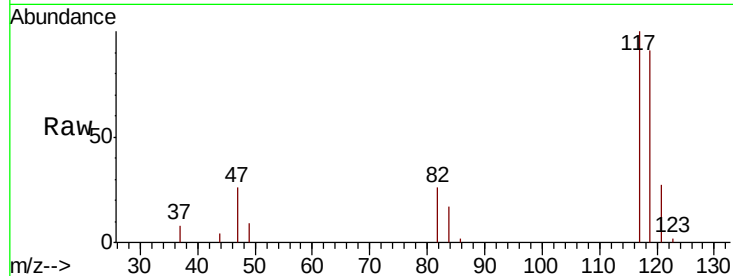
VSTD01031

Tot Ion:117 Resp: 15529

Ion Ratio Lower Upper

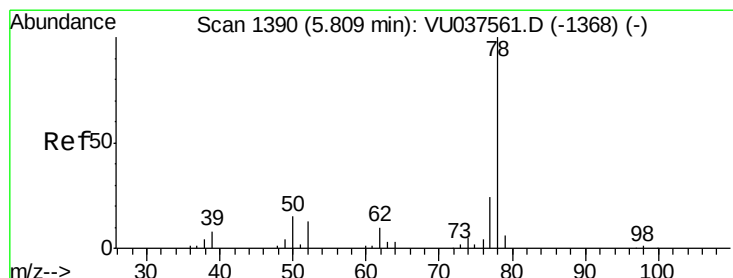
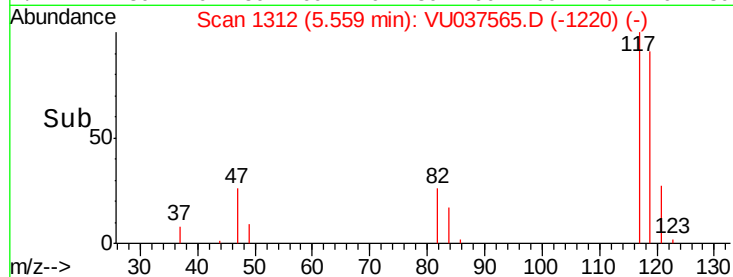
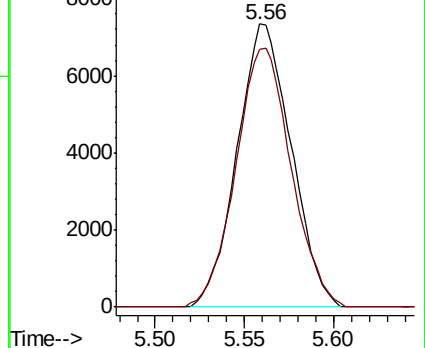
117 100

119 93.6 77.8 116.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 10.570 ug/L

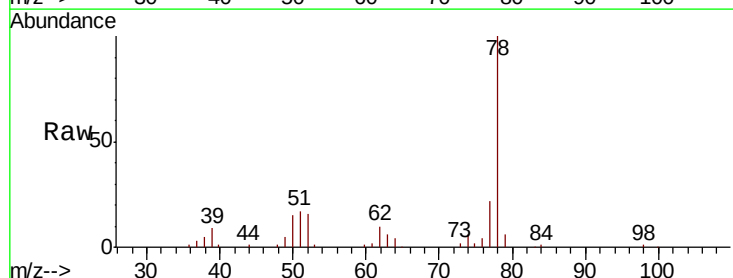
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

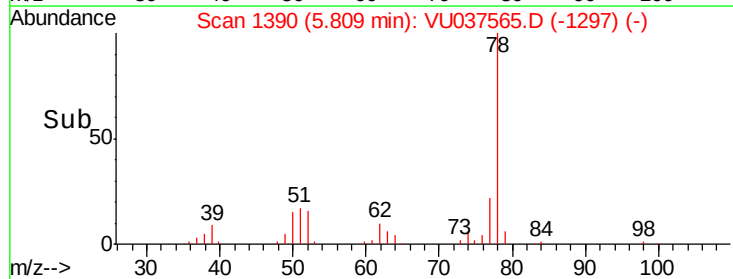
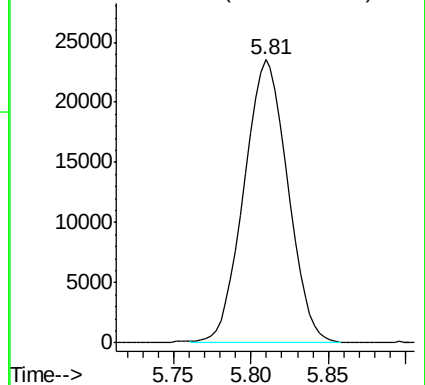
Lab File: VU037565.D

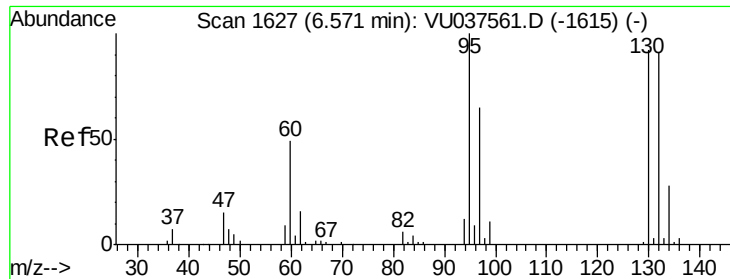
Acq: 03 Apr 2020 12:25

Tgt Ion: 78 Resp: 46454



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 10.634 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

Tot Ion: 95 Resp: 12221

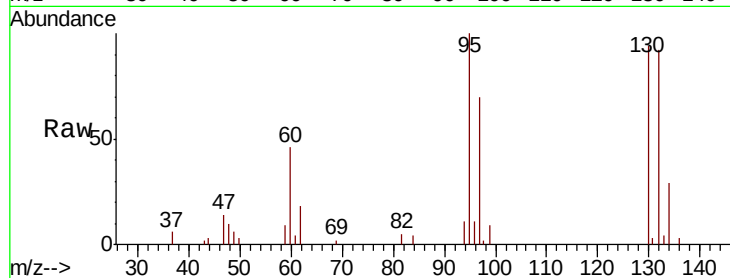
Ion Ratio Lower Upper

95 100

97 72.0 45.2 84.0

132 91.9 63.7 118.3

130 96.7 64.5 119.7

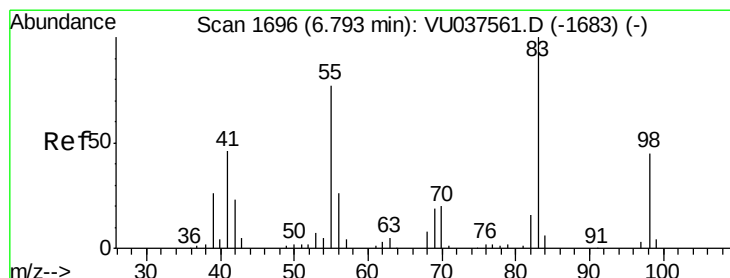
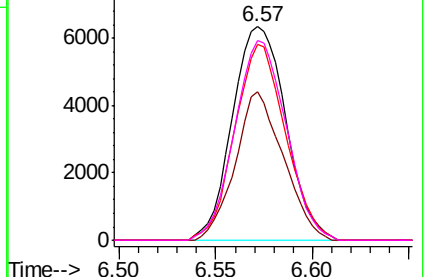
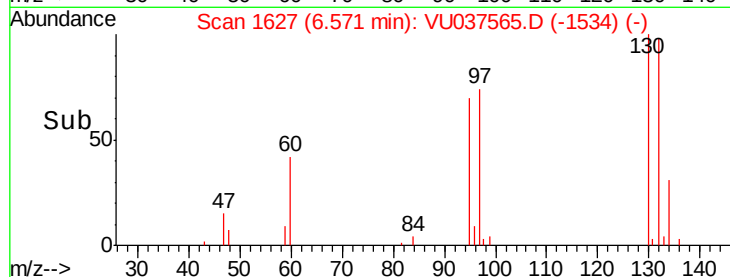


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 10.686 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

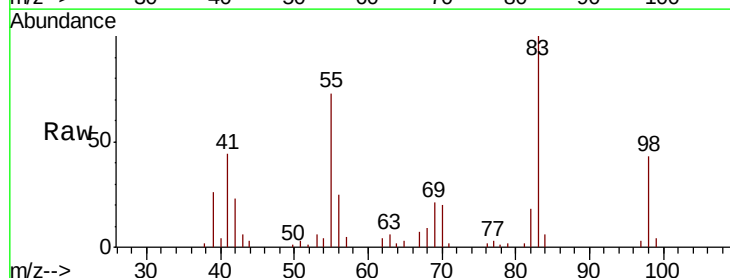
Tgt Ion: 83 Resp: 18974

Ion Ratio Lower Upper

83 100

55 76.2 61.1 91.7

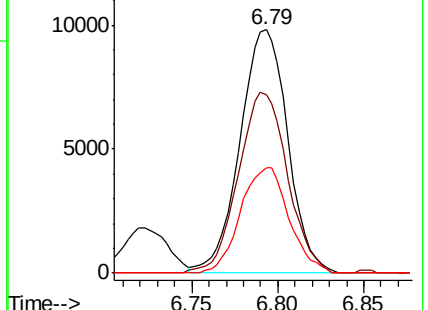
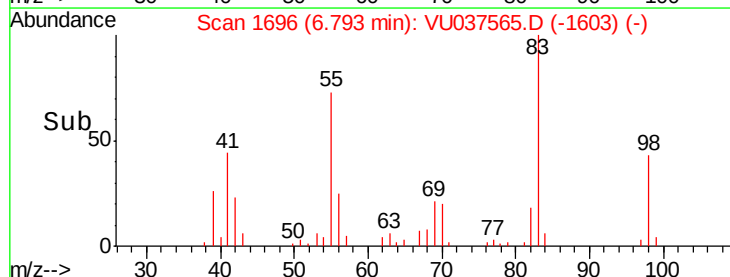
98 43.7 35.3 52.9

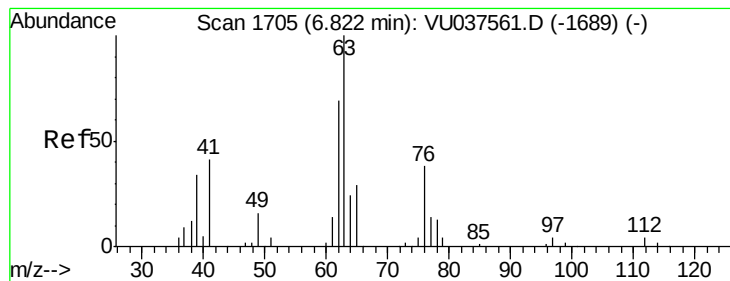


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 10.782 ug/L

RT: 6.83 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampled :

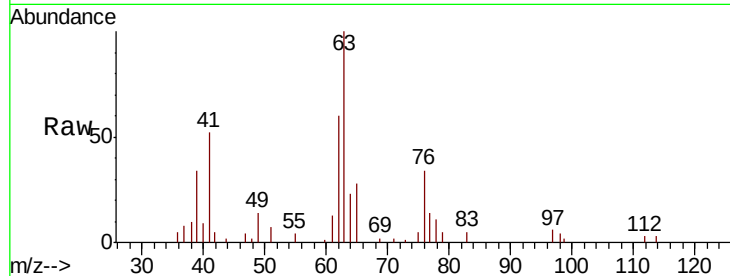
VSTD01031

Tot Ion: 63 Resp: 13501

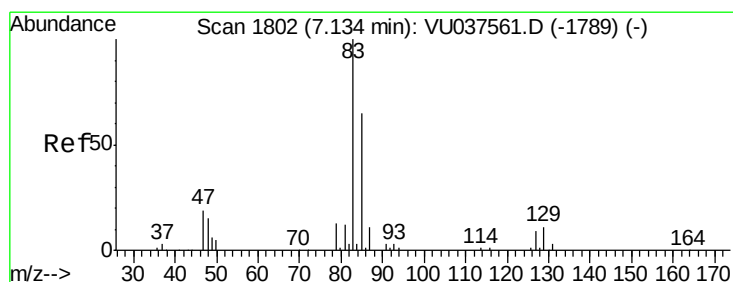
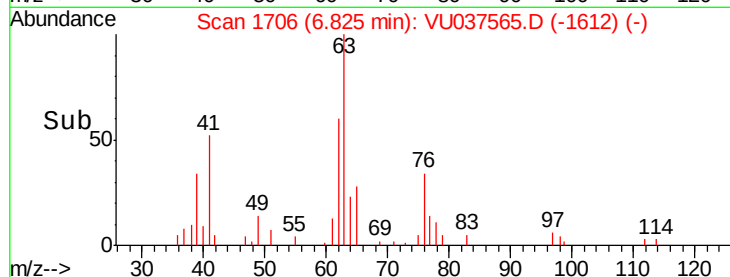
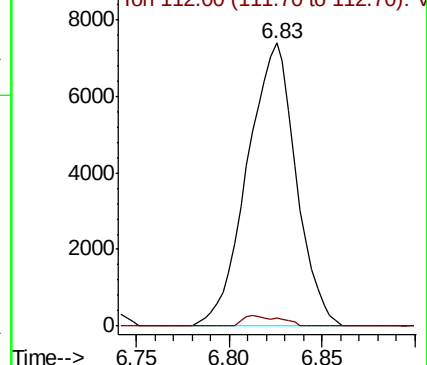
Ion Ratio Lower Upper

63 100

112 1.9 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU037565.D (-1612) (-)



#38

Bromodichloromethane

Concen: 10.311 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

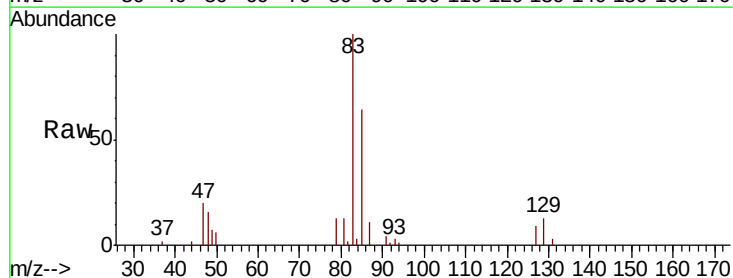
Tgt Ion: 83 Resp: 16793

Ion Ratio Lower Upper

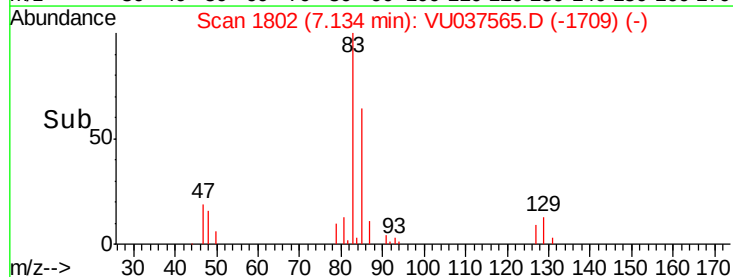
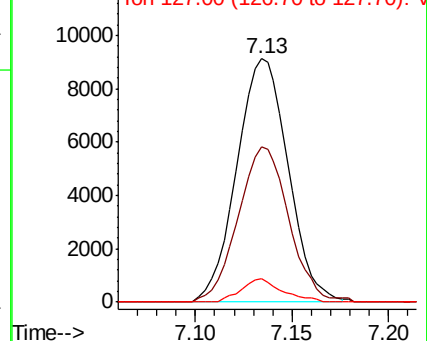
83 100

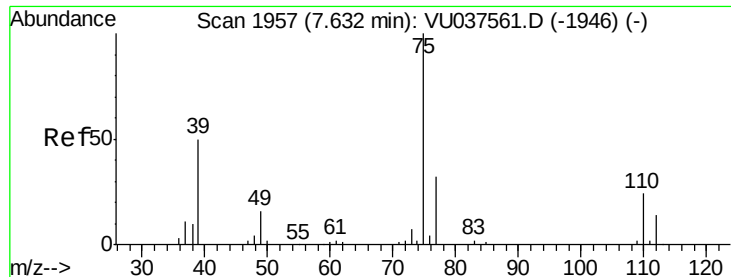
85 63.8 45.2 84.0

127 9.4 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU037565.D (-1709) (-)

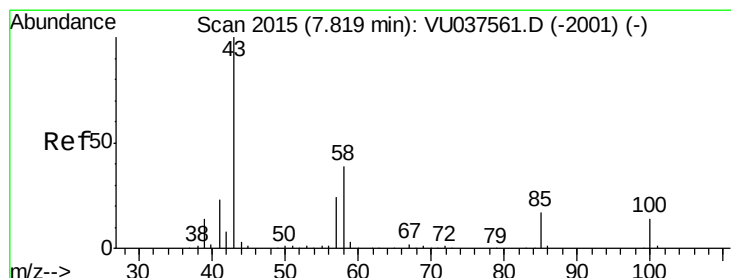
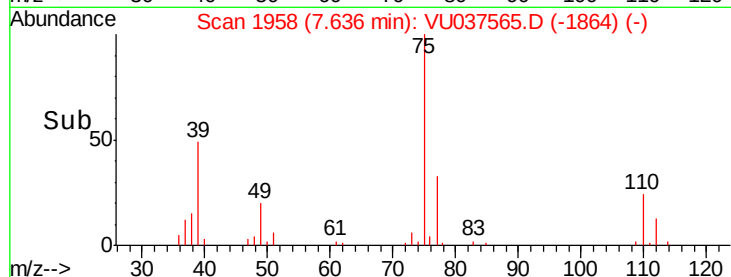
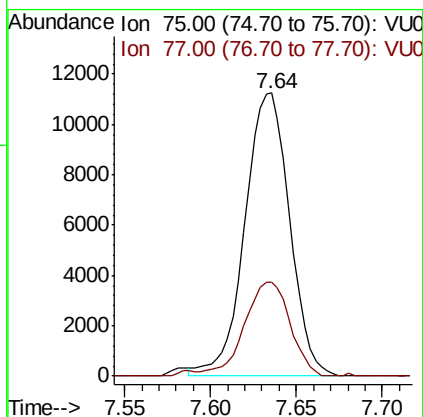
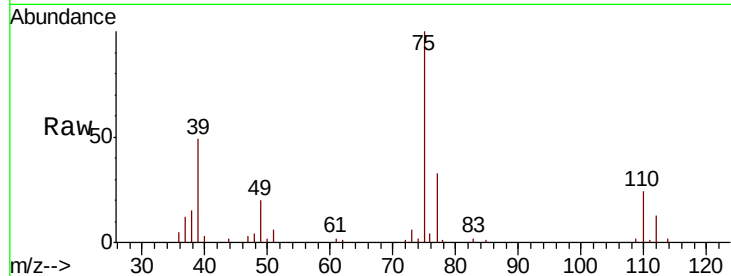




#39
 cis-1,3-Dichloropropene
 Concen: 10.379 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

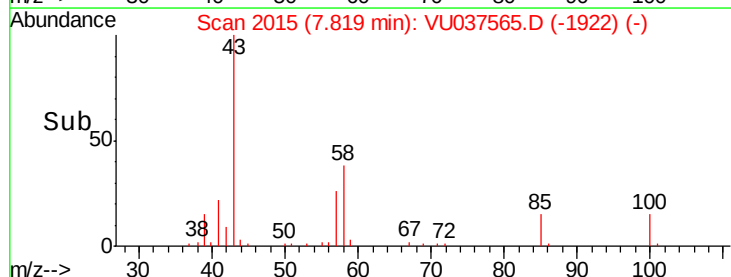
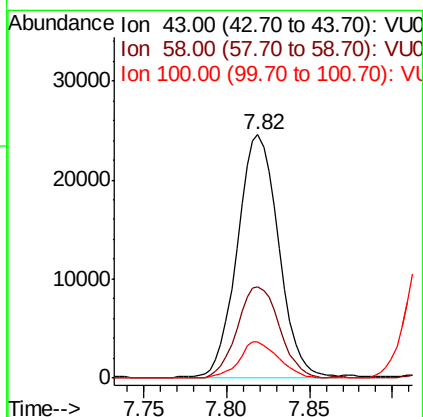
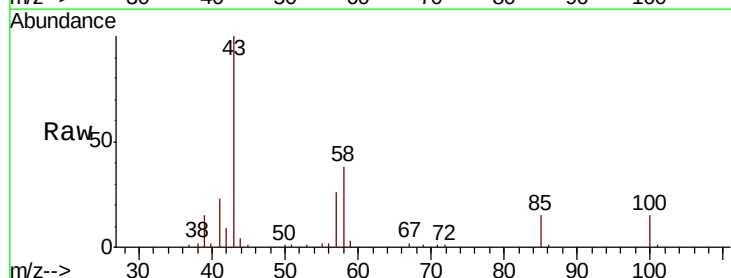
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

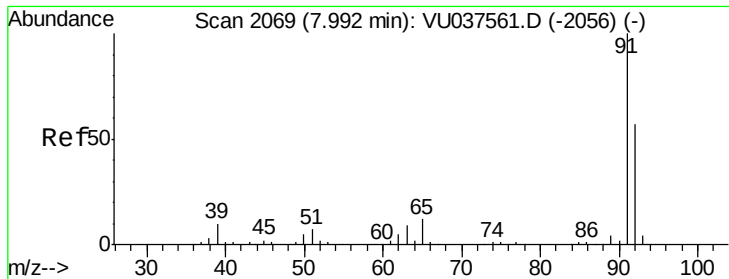
Tot Ion: 75 Resp: 20300
 Ion Ratio Lower Upper
 75 100
 77 33.0 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 20.894 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

Tgt Ion: 43 Resp: 42456
 Ion Ratio Lower Upper
 43 100
 58 38.3 31.4 47.0
 100 14.2 11.0 16.4





#42

Toluene

Concen: 10.499 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

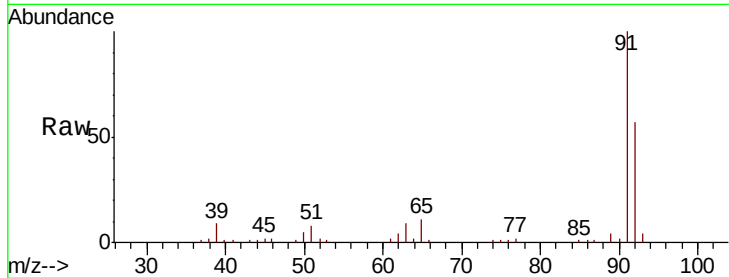
VSTD01031

Tot Ion: 91 Resp: 49934

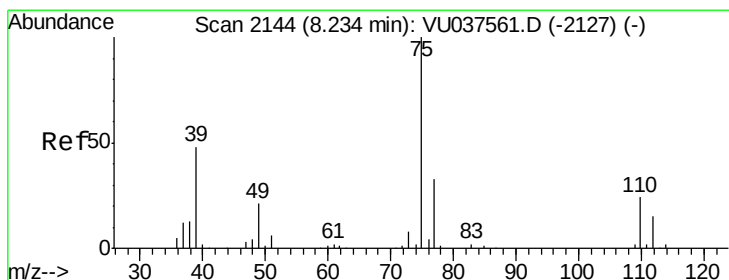
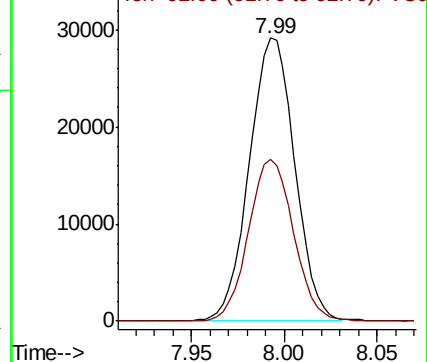
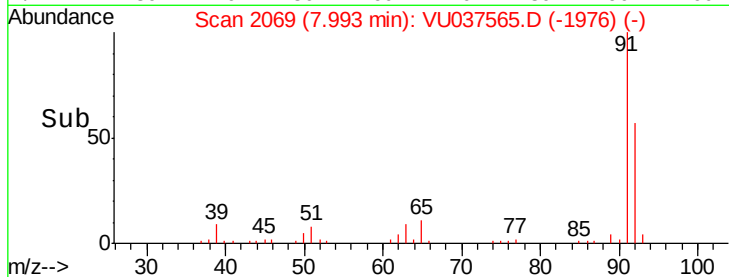
Ion Ratio Lower Upper

91 100

92 57.0 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU037565.D (-1976) (-)



#44

trans-1,3-Dichloropropene

Concen: 10.138 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037565.D

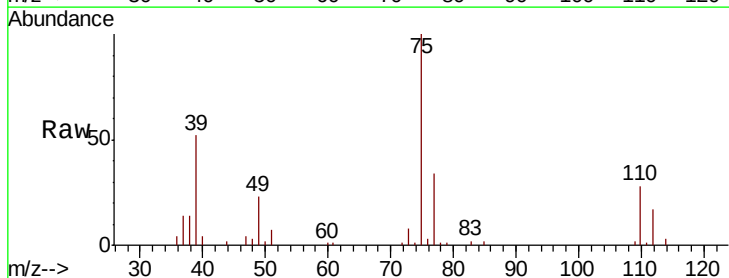
Acq: 03 Apr 2020 12:25

Tgt Ion: 75 Resp: 19526

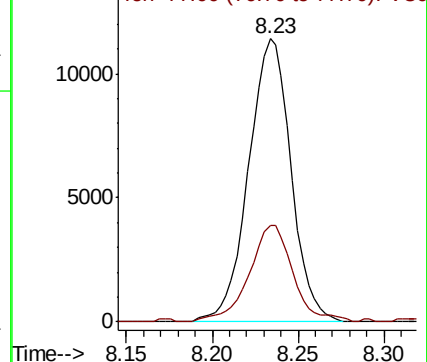
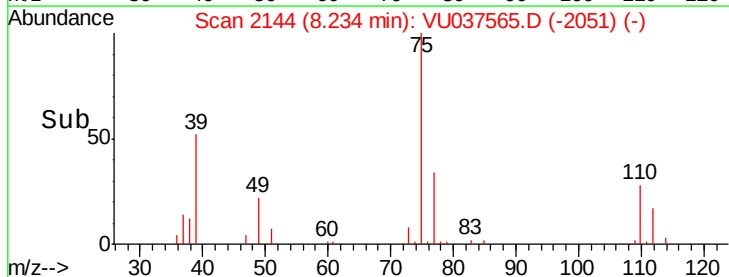
Ion Ratio Lower Upper

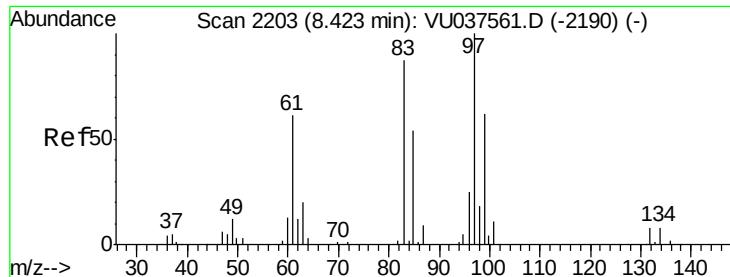
75 100

77 34.2 23.4 43.6



Abundance Ion 75.00 (74.70 to 75.70): VU037565.D (-2051) (-)

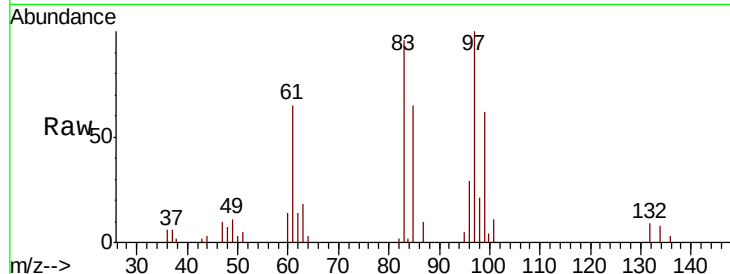




#45
 1,1,2-Trichloroethane
 Concen: 10.453 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

Tot Ion:	97	Resp:	11951
Ion	Ratio	Lower	Upper
97	100		
99	62.2	43.3	80.5
83	96.3	60.8	112.8
85	64.9	37.9	70.5



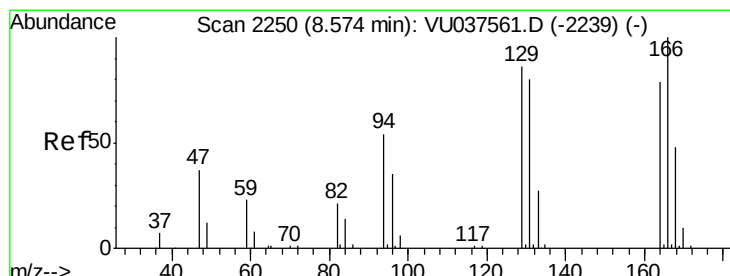
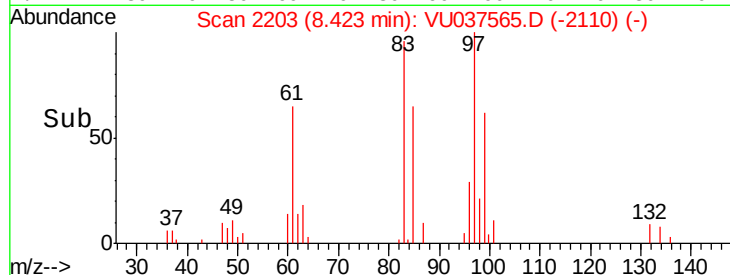
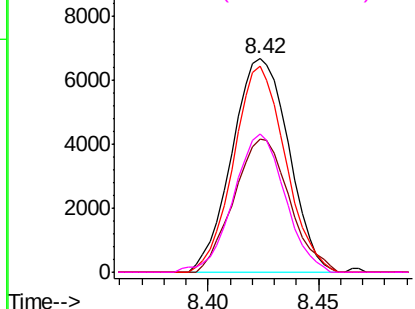
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

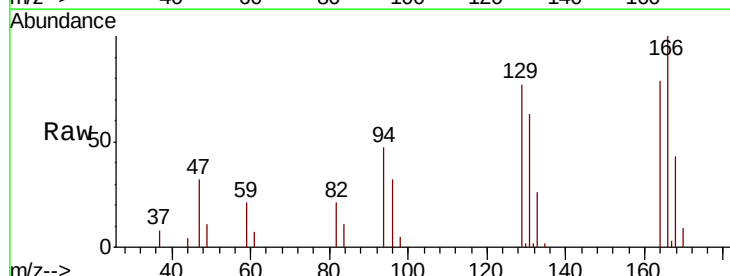
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 10.365 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

Tgt Ion:	164	Resp:	7998
Ion	Ratio	Lower	Upper
164	100		
129	99.8	76.5	142.1
131	80.0	71.7	133.1
166	130.0	88.8	165.0



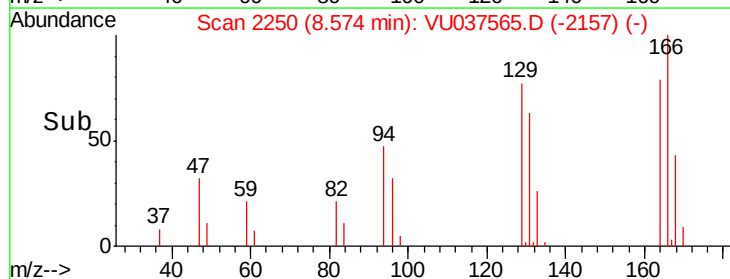
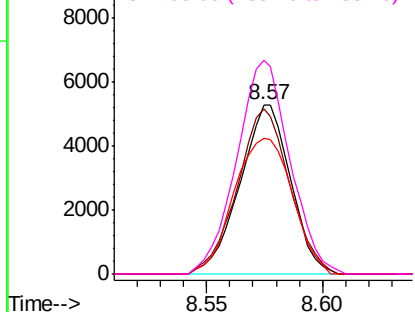
Abundance

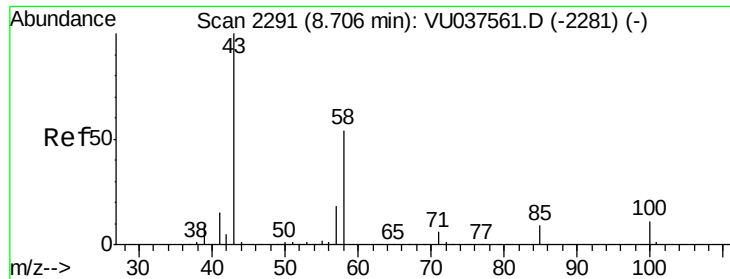
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

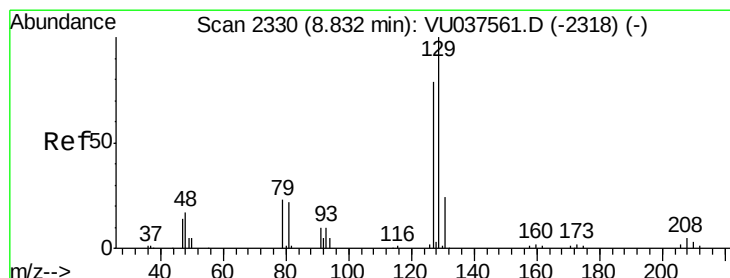
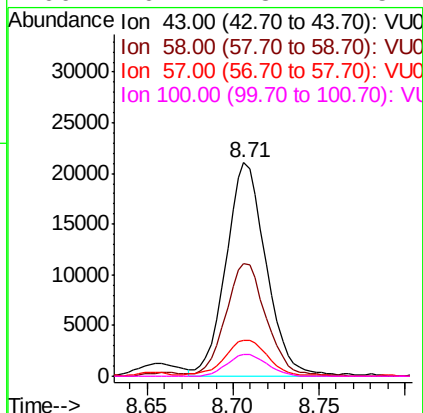
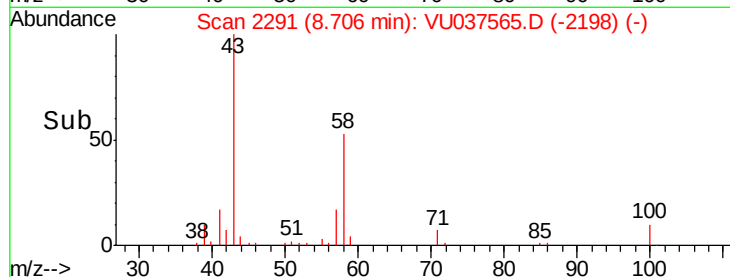
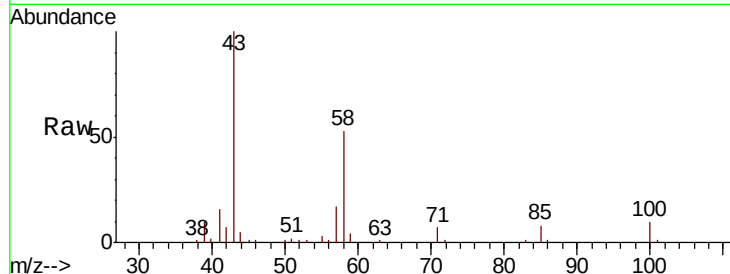




#48
2-Hexanone
Concen: 21.708 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU037565.D
Acq: 03 Apr 2020 12:25

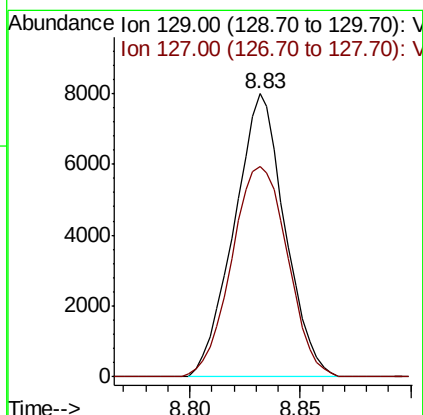
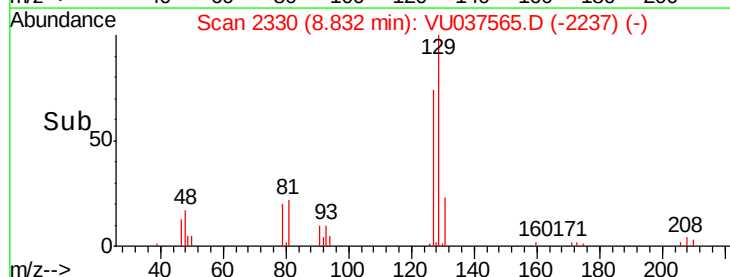
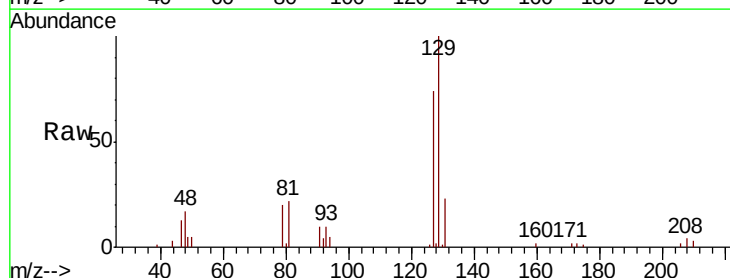
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

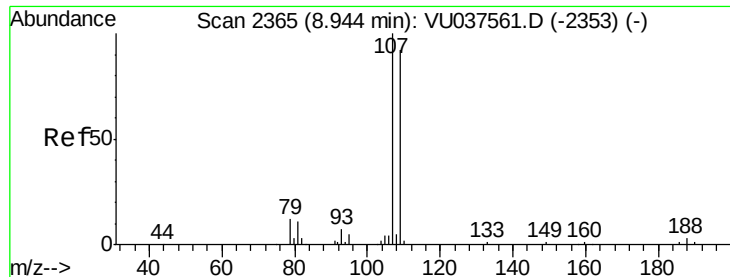
Tot Ion: 43 Resp: 34304
Ion Ratio Lower Upper
43 100
58 53.7 44.4 66.6
57 18.4 15.1 22.7
100 10.4 8.7 13.1



#49
Dibromochloromethane
Concen: 10.002 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037565.D
Acq: 03 Apr 2020 12:25

Tgt Ion: 129 Resp: 12755
Ion Ratio Lower Upper
129 100
127 73.3 55.0 102.2

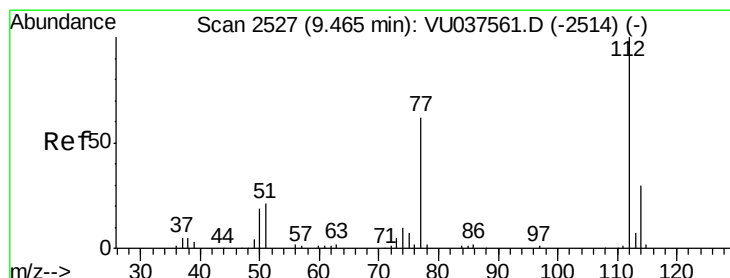
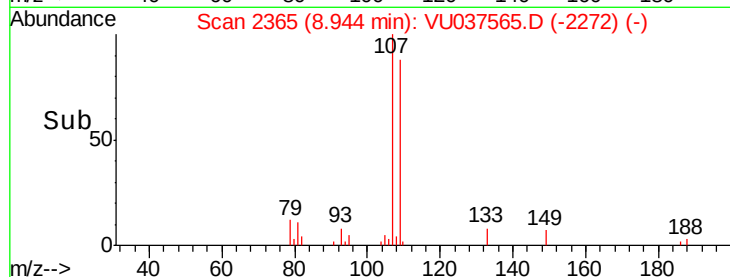
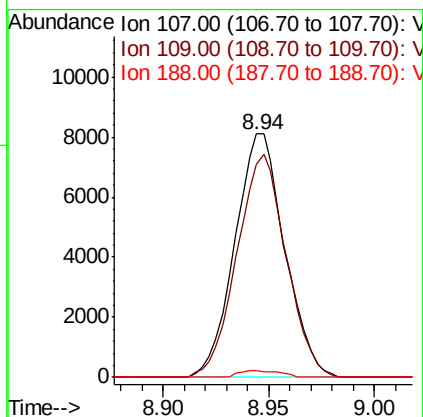
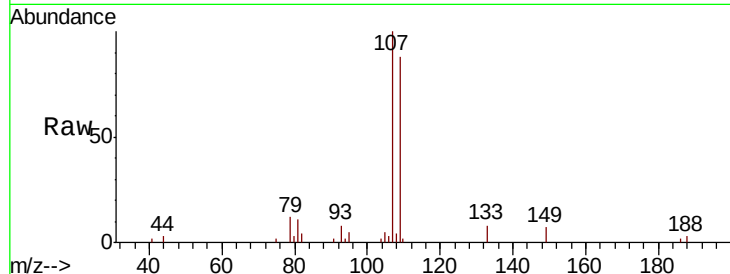




#50
 1,2-Dibromoethane
 Concen: 10.578 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

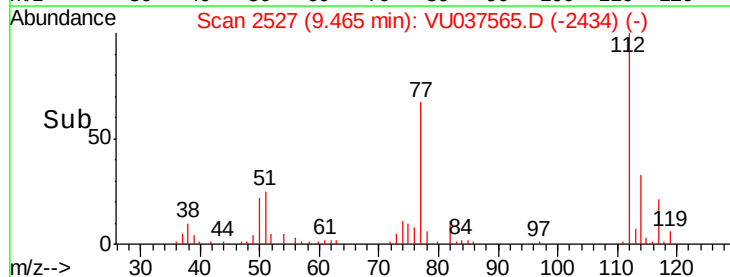
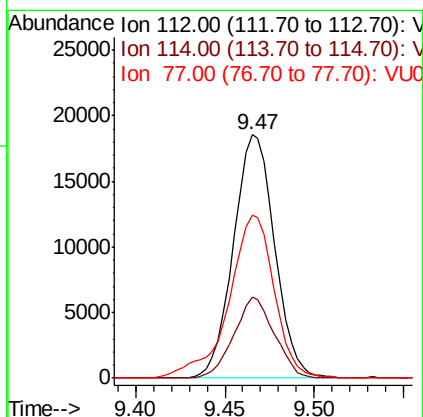
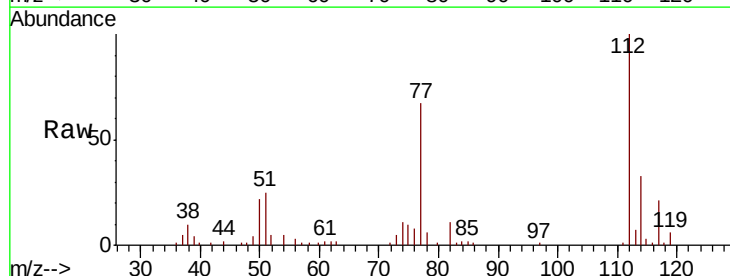
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

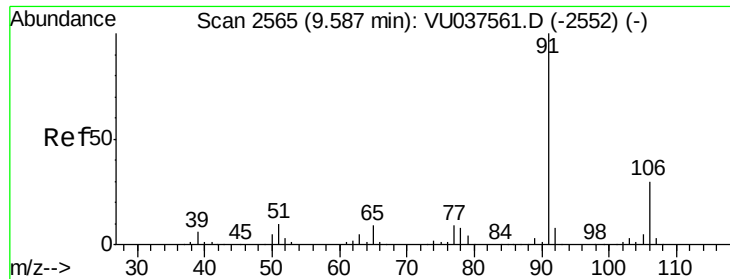
Tot Ion:107 Resp: 13300
 Ion Ratio Lower Upper
 107 100
 109 87.5 64.1 119.1
 188 2.6 2.3 3.5



#51
 Chlorobenzene
 Concen: 10.168 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

Tgt Ion:112 Resp: 29996
 Ion Ratio Lower Upper
 112 100
 114 33.3 21.0 39.0
 77 67.1 50.2 75.4





#52

Ethylbenzene

Concen: 10.281 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

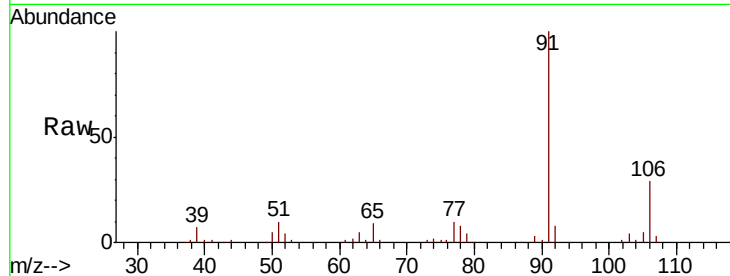
VSTD01031

Tot Ion: 91 Resp: 55293

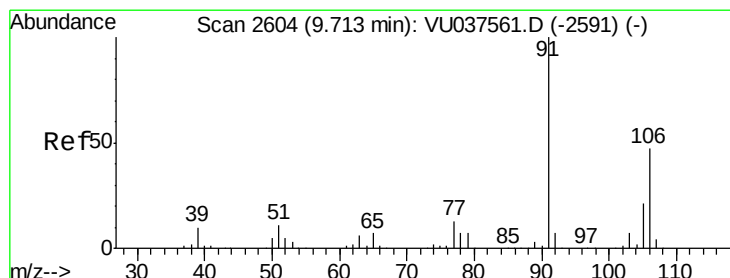
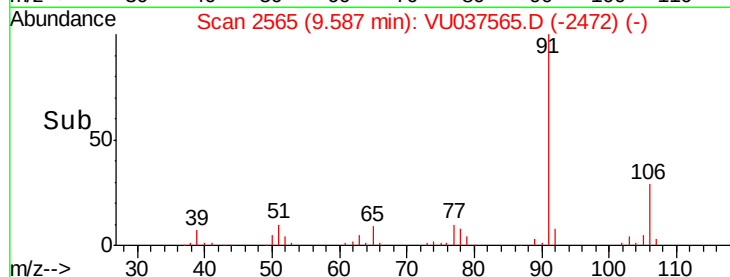
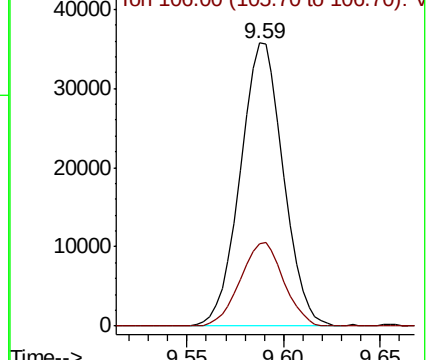
Ion Ratio Lower Upper

91 100

106 29.3 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VU037561.D (-2552) (-)



#53

m,p-Xylene

Concen: 10.314 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037565.D

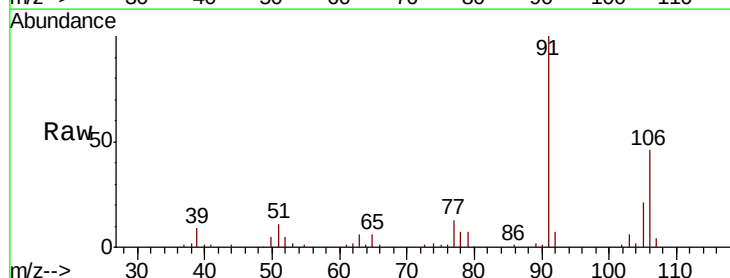
Acq: 03 Apr 2020 12:25

Tgt Ion: 106 Resp: 20692

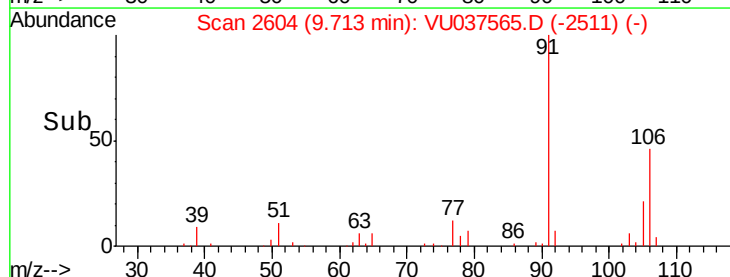
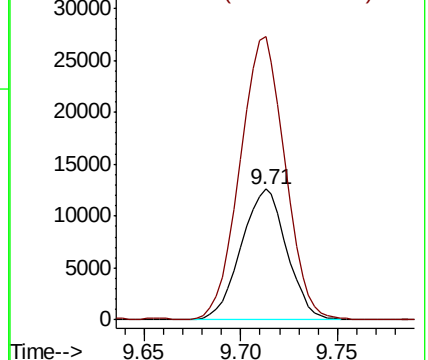
Ion Ratio Lower Upper

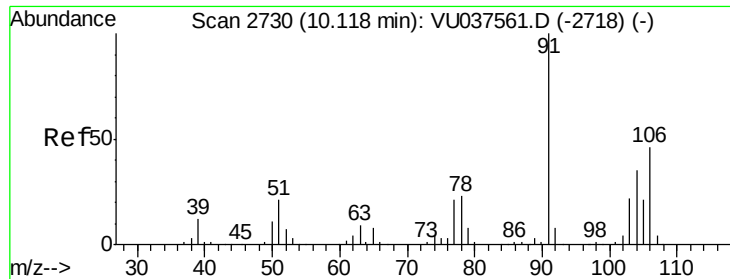
106 100

91 216.8 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU037561.D (-2591) (-)





#54

o-xylene

Concen: 10.537 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

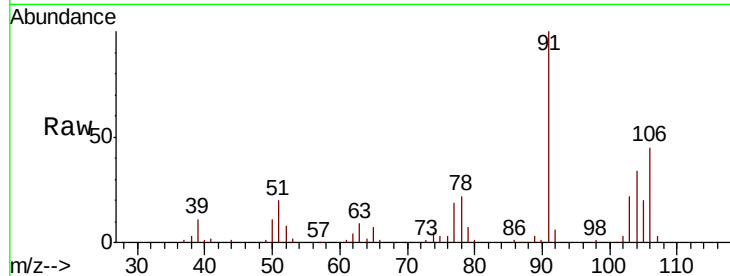
VSTD01031

Tot Ion:106 Resp: 20374

Ion Ratio Lower Upper

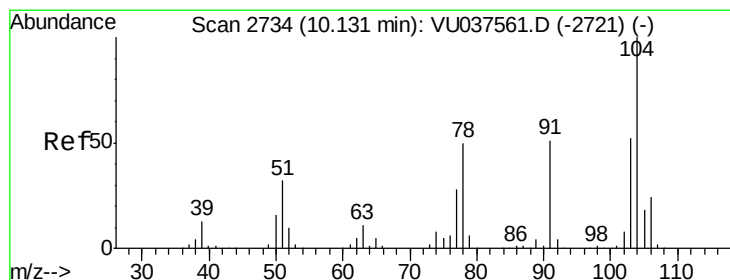
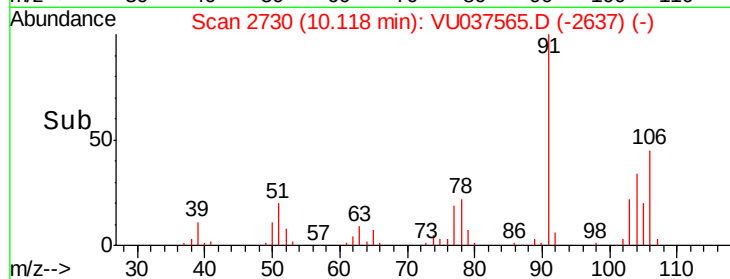
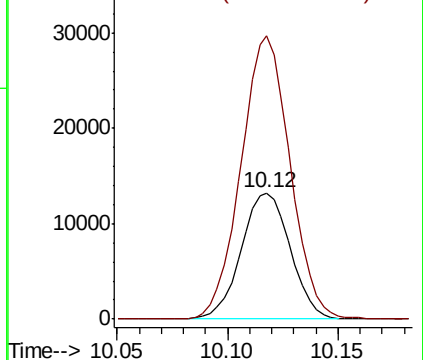
106 100

91 224.5 152.6 283.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 10.395 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU037565.D

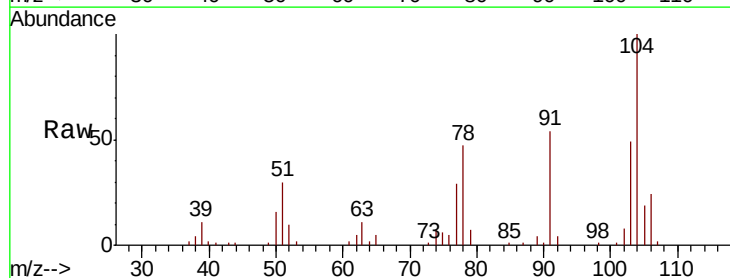
Acq: 03 Apr 2020 12:25

Tgt Ion:104 Resp: 35591

Ion Ratio Lower Upper

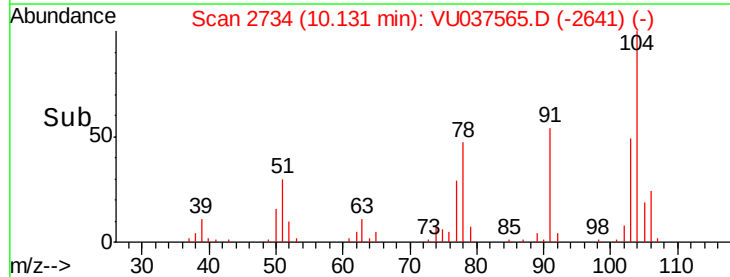
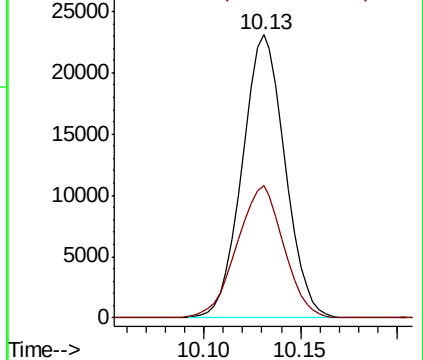
104 100

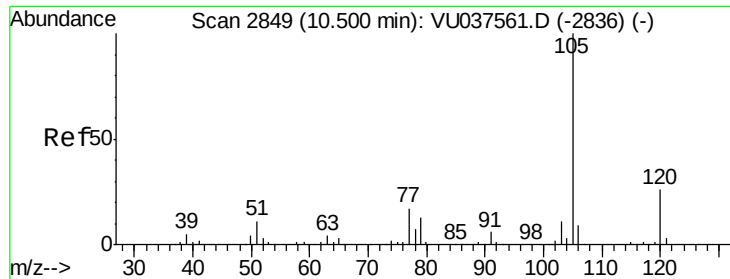
78 46.6 34.9 64.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 10.470 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

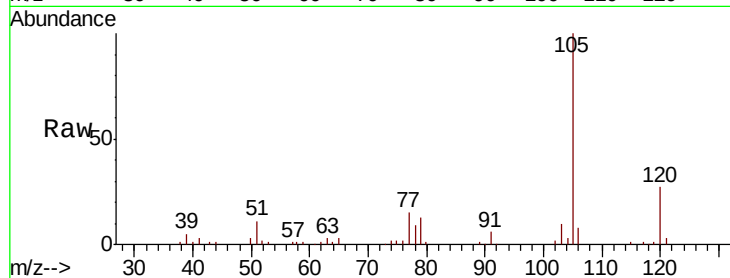
Tot Ion:105 Resp: 54892

Ion Ratio Lower Upper

105 100

120 26.0 20.7 31.1

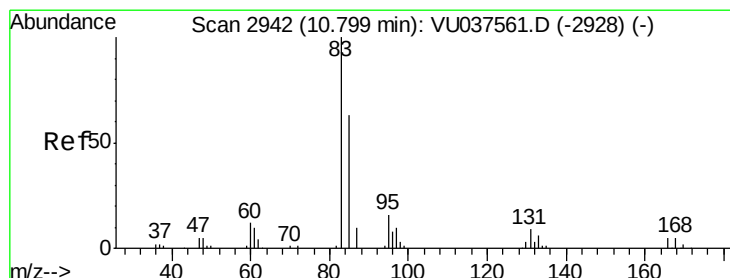
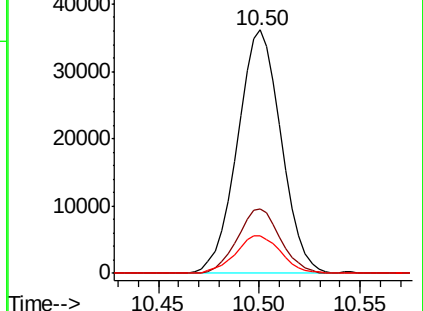
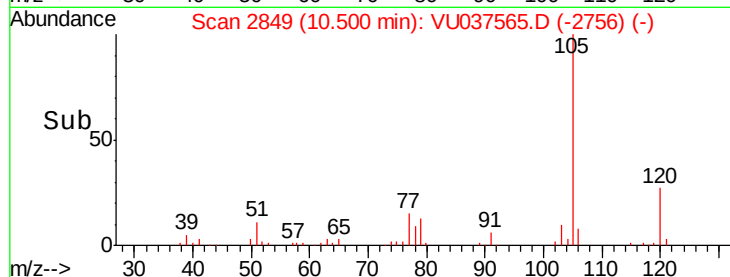
77 16.1 13.4 20.0



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: 10.652 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

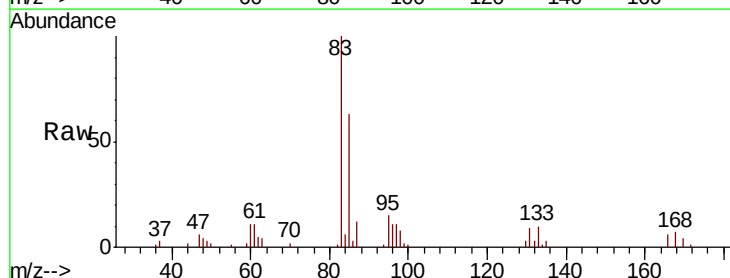
Tgt Ion: 83 Resp: 21955

Ion Ratio Lower Upper

83 100

85 63.0 44.2 82.2

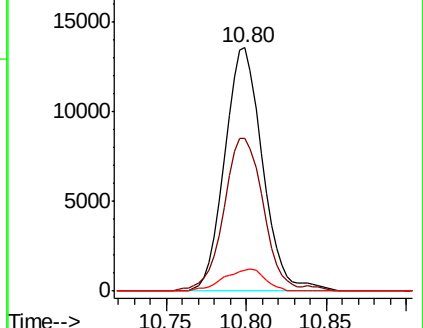
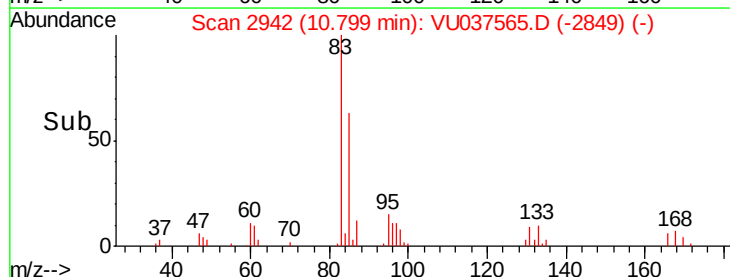
131 8.6 7.2 10.8

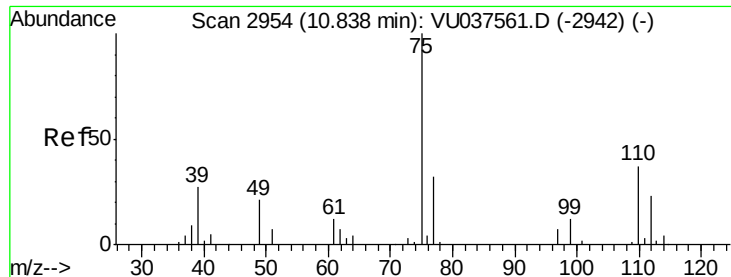


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 10.413 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

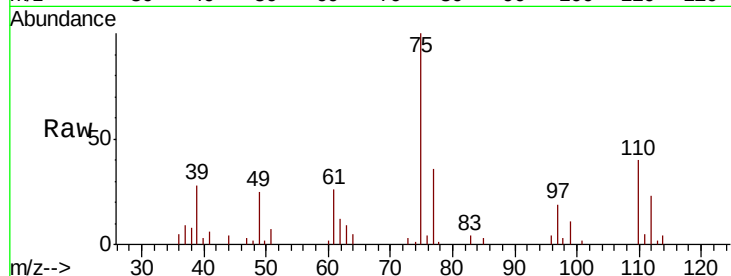
VSTD01031

Tot Ion: 75 Resp: 16762

Ion Ratio Lower Upper

75 100

77 34.7 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU037561.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU037561.D (-2942) (-)

10.84

12000

10000

8000

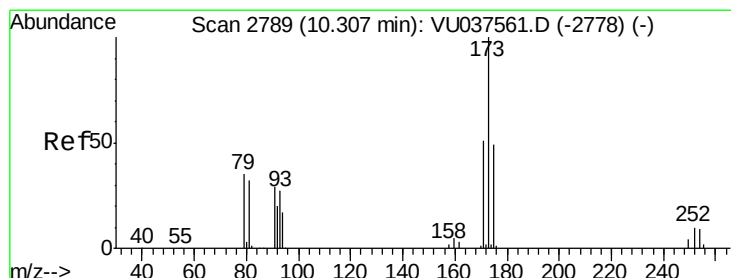
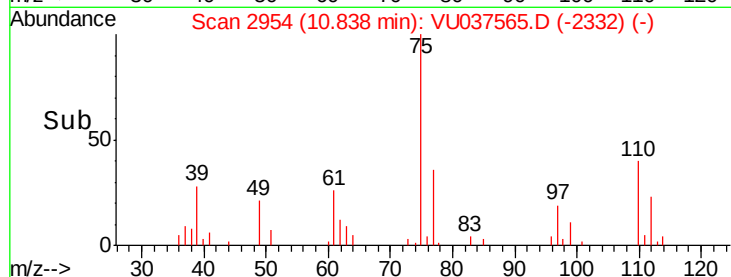
6000

4000

2000

0

Time-->



#61

Bromoform

Concen: 10.650 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

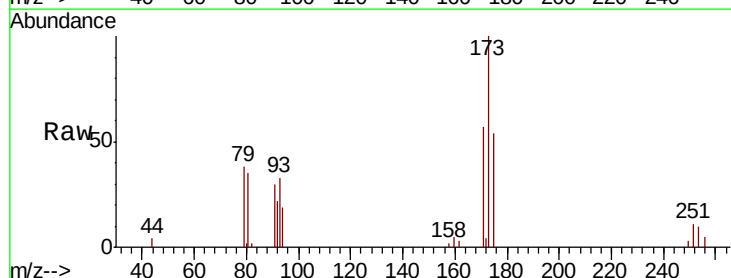
Tgt Ion:173 Resp: 9567

Ion Ratio Lower Upper

173 100

175 48.8 38.6 58.0

254 3.5 7.4 11.2#



Abundance Ion 173.00 (172.70 to 173.70): VU037561.D (-2778) (-)

Ion 175.00 (174.70 to 175.70): VU037561.D (-2778) (-)

Ion 254.00 (253.70 to 254.70): VU037561.D (-2778) (-)

10.31

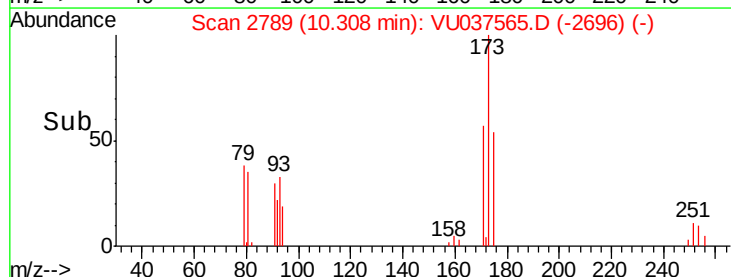
6000

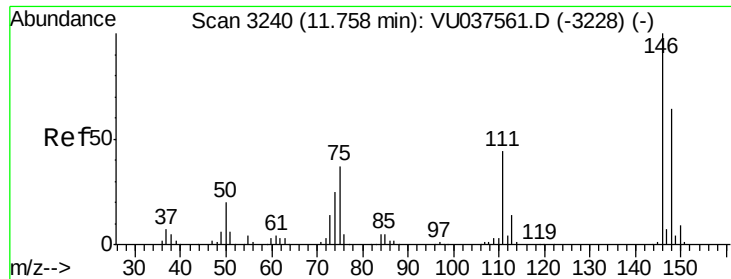
4000

2000

0

Time-->

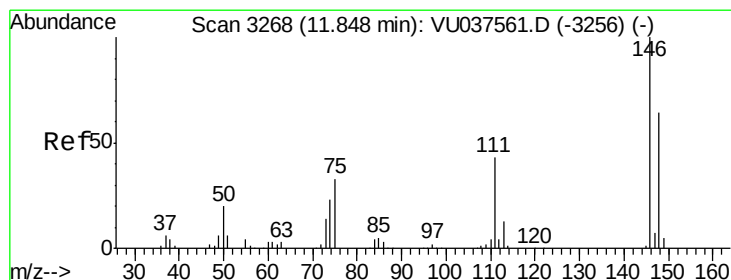
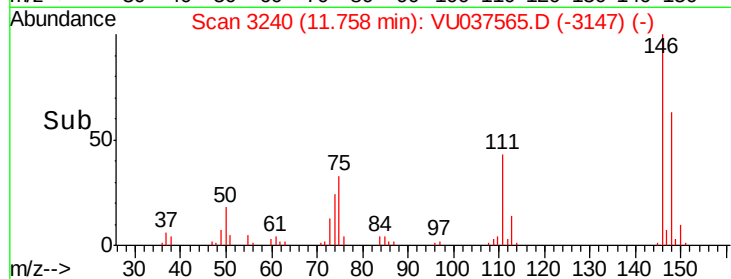
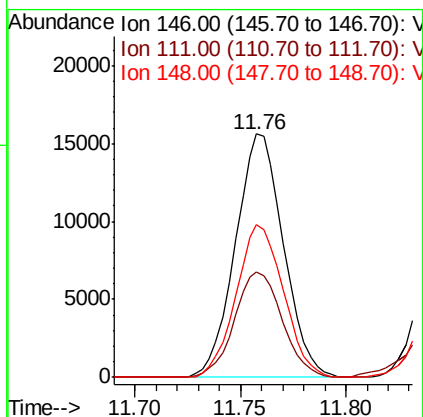
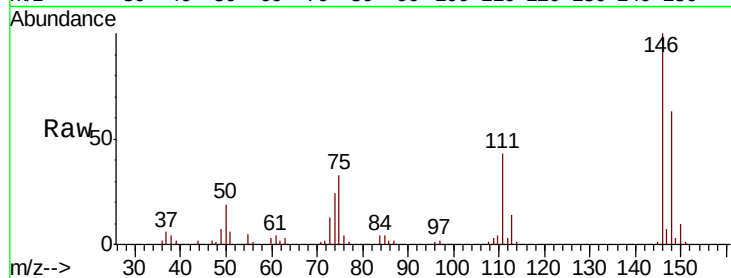




#62
 1,3-Dichlorobenzene
 Concen: 10.872 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

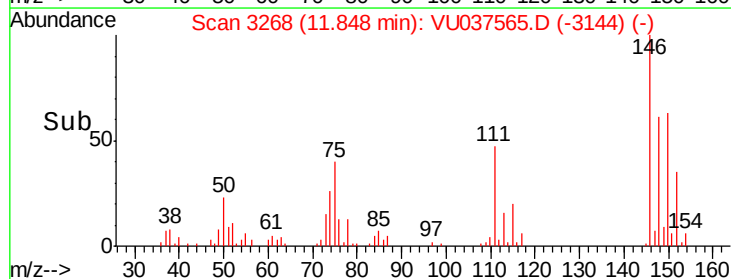
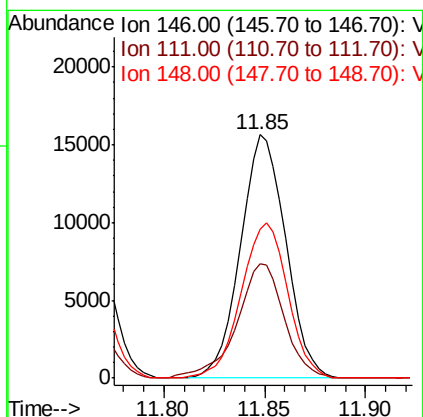
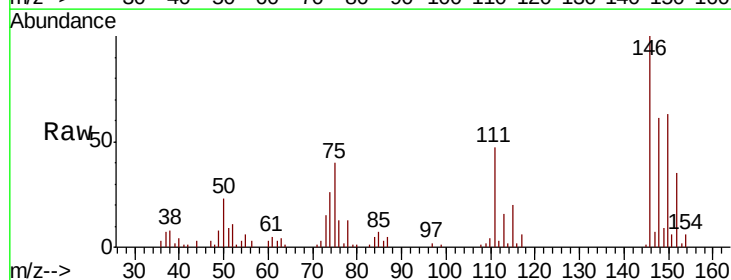
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

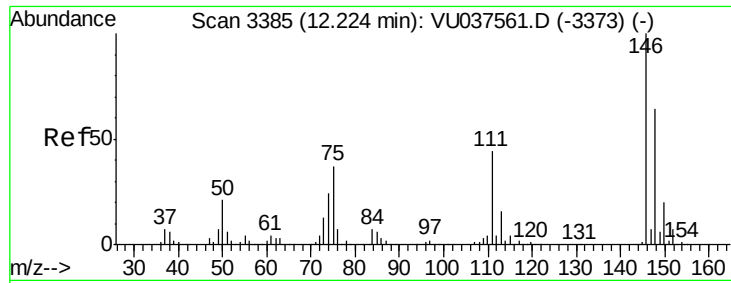
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	31.1	57.7
148	62.5	44.4	82.5



#63
 1,4-Dichlorobenzene
 Concen: 10.743 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	30.1	55.9
148	61.4	44.7	82.9





#65

1,2-Dichlorobenzene

Concen: 10.827 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

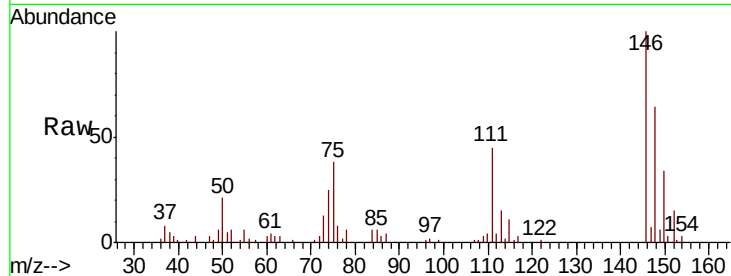
Tot Ion:146 Resp: 24324

Ion Ratio Lower Upper

146 100

111 45.0 35.6 53.4

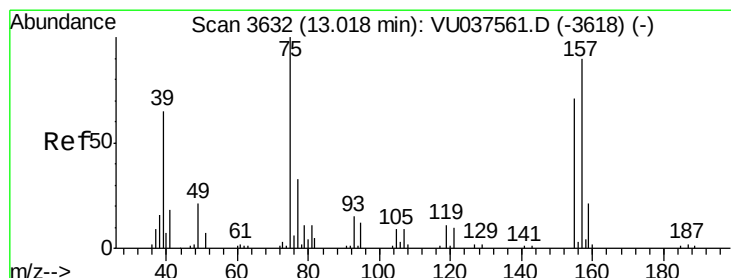
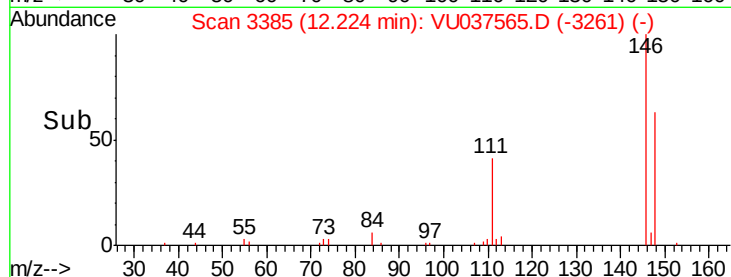
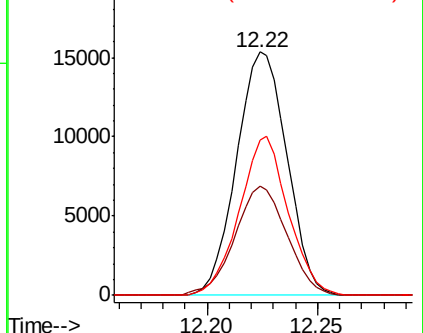
148 63.6 51.0 76.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 10.270 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

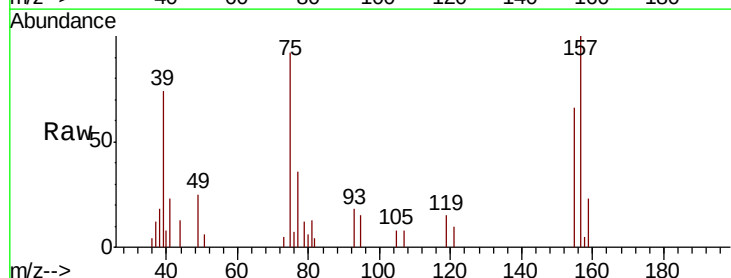
Tgt Ion: 75 Resp: 5534

Ion Ratio Lower Upper

75 100

155 71.8 56.6 85.0

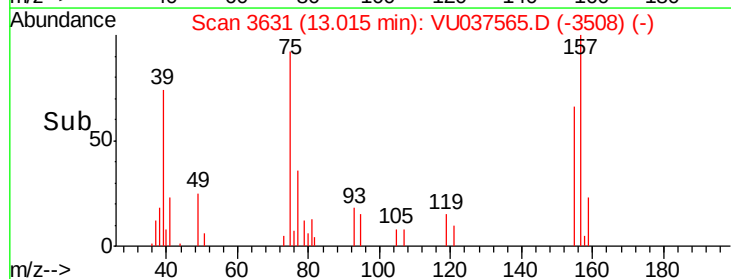
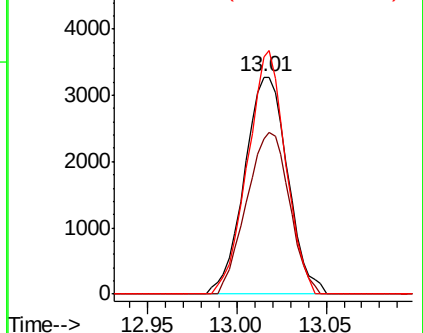
157 109.1 72.4 108.6#

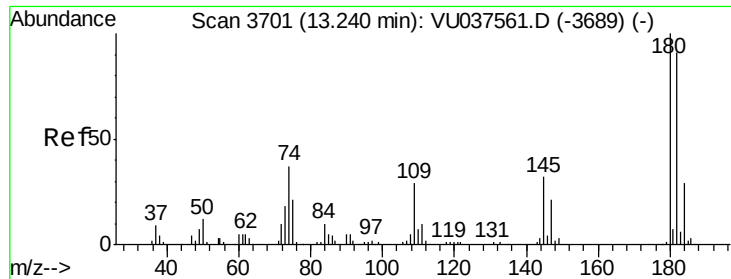


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

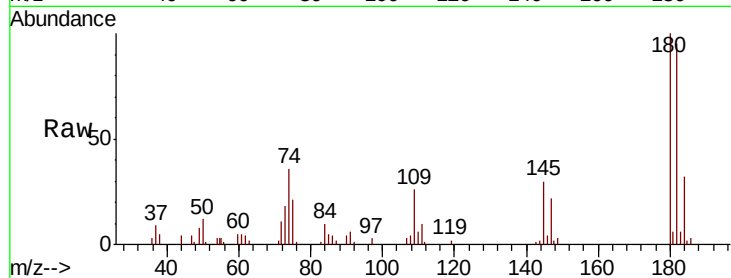




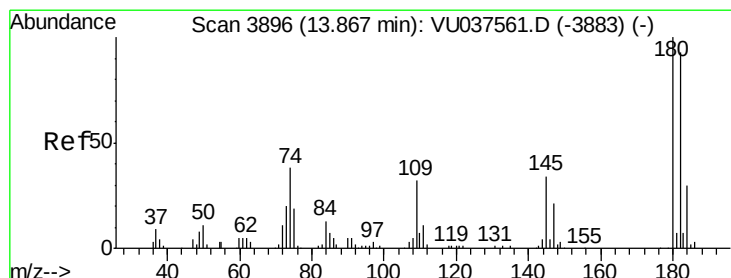
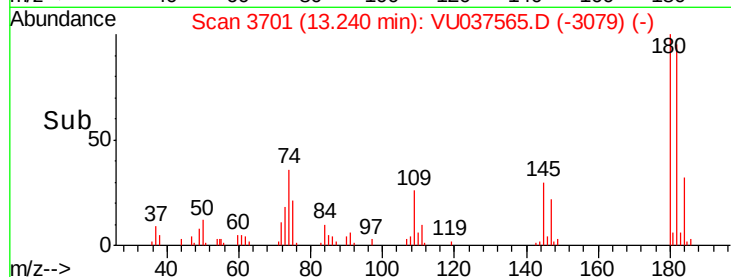
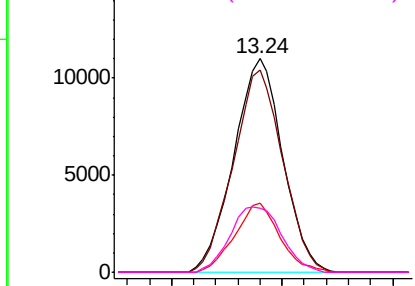
#67
 1,3,5-Trichlorobenzene
 Concen: 10.760 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

Tot Ion:180 Resp: 16946
 Ion Ratio Lower Upper
 180 100
 182 95.5 74.9 112.3
 184 29.7 23.6 35.4
 145 32.2 25.7 38.5

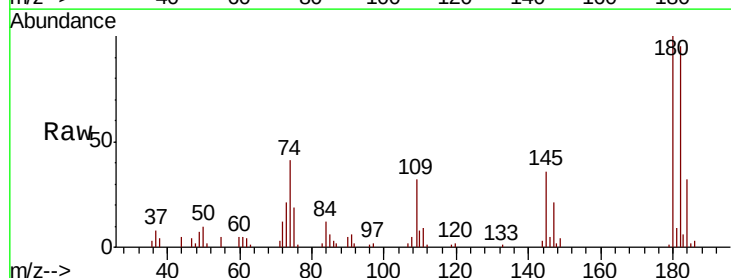


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

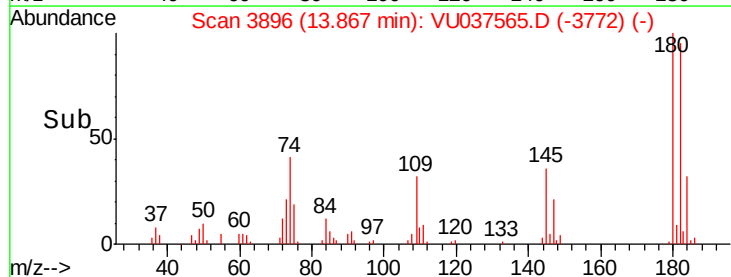
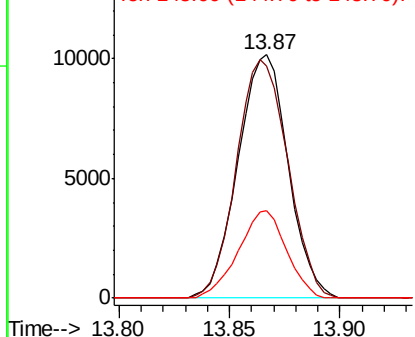


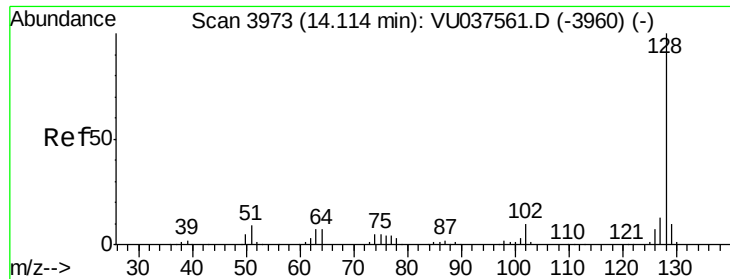
#68
 1,2,4-trichlorobenzene
 Concen: 10.774 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU037565.D
 Acq: 03 Apr 2020 12:25

Tgt Ion:180 Resp: 16175
 Ion Ratio Lower Upper
 180 100
 182 99.7 74.4 111.6
 145 34.4 26.9 40.3



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





#69

Naphthalene

Concen: 11.141 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

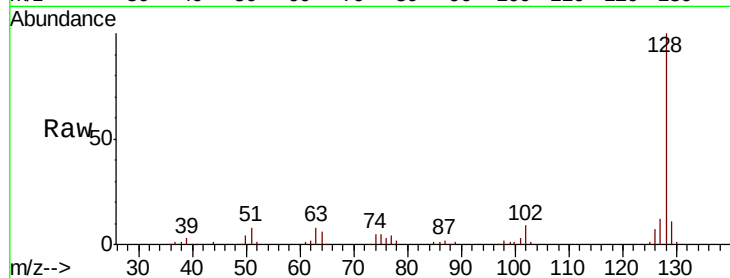
Tot Ion:128 Resp: 70862

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.4

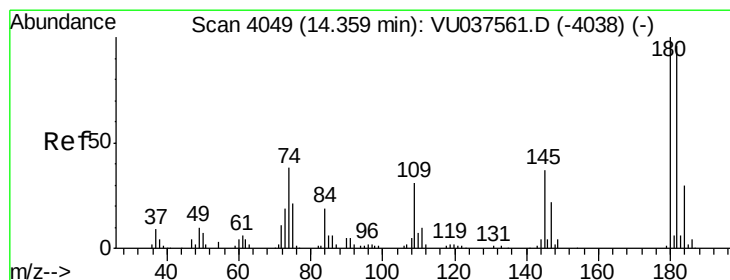
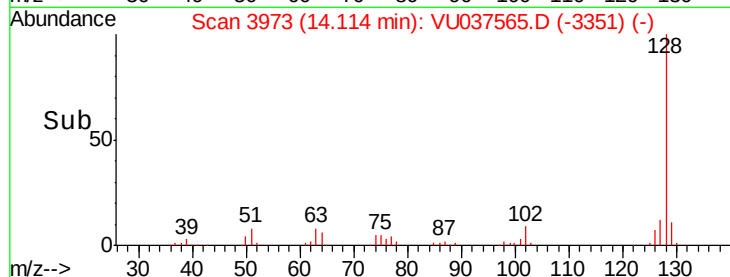
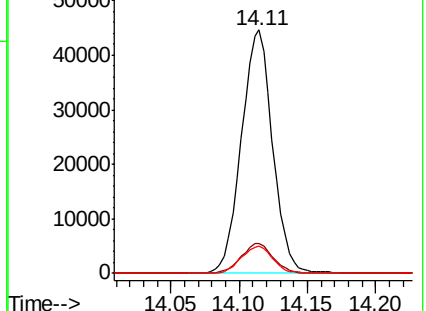
129 11.3 8.5 12.7



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: 11.556 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. 0.00 min

Lab File: VU037565.D

Acq: 03 Apr 2020 12:25

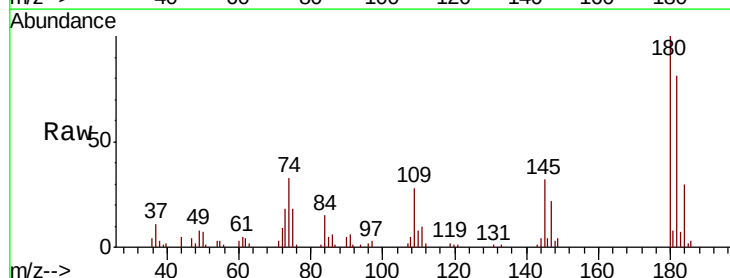
Tgt Ion:180 Resp: 17526

Ion Ratio Lower Upper

180 100

182 85.5 76.0 114.0

145 33.8 29.0 43.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

