

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121020\
 Data File : VU041529.D
 Acq On : 10 Dec 2020 11:28
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

Quant Time: Dec 11 05:59:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 10 04:45:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	45960	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	46842	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	26536	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	10877	4.61	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.20%
7) Chloroethane-d5	1.92	69	9542	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.20%
11) 1,1-Dichloroethene-d2	2.58	63	28840	5.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	100.80%
20) 2-Butanone-d5	4.65	46	32428	36.63	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	73.26%
24) Chloroform-d	5.08	84	32781	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.60%
26) 1,2-Dichloroethane-d4	5.72	65	21048	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%
32) Benzene-d6	5.74	84	49184	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.70	67	12269	4.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	80.40%
41) Toluene-d8	7.90	98	53283	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.20%
43) trans-1,3-Dichloropropene-	8.18	79	8621	4.77	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.40%
46) 2-Hexanone-d5	8.64	63	26813	35.64	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	71.28%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	13273	3.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	78.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	23403	5.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	19179	4.713	ug/L	97
3) Chloromethane	1.53	50	9722	3.696	ug/L	100
5) Vinyl chloride	1.61	62	12157	3.877	ug/L	99
6) Bromomethane	1.87	94	10103	4.660	ug/L	94
8) Chloroethane	1.94	64	8269	4.054	ug/L	93
9) Trichlorofluoromethane	2.15	101	35799	5.124	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	15457	4.936	ug/L	94
12) 1,1-Dichloroethene	2.59	96	12680	4.713	ug/L	96
13) Acetone	2.66	43	27195	39.461	ug/L	68
14) Carbon disulfide	2.81	76	36380	4.387	ug/L	98
15) Methyl Acetate	2.97	43	4688	3.717	ug/L	99
16) Methylene chloride	3.06	84	13993	3.897	ug/L	87
17) Methyl tert-butyl Ether	3.38	73	36837	4.512	ug/L	98
18) trans-1,2-Dichloroethene	3.37	96	12576	4.628	ug/L	93
19) 1,1-Dichloroethane	3.89	63	22586	4.499	ug/L	96
21) 2-Butanone	4.73	43	33803	39.200	ug/L	97
22) cis-1,2-Dichloroethene	4.68	96	14490	4.809	ug/L	100

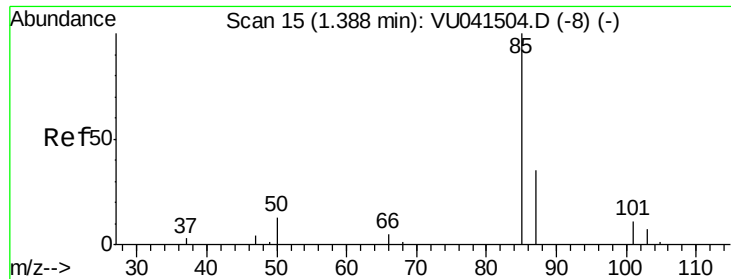
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121020\
 Data File : VU041529.D
 Acq On : 10 Dec 2020 11:28
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 10 04:45:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	7605	4.829	ug/L	94
25) Chloroform	5.11	83	31053	4.855	ug/L	99
27) 1,2-Dichloroethane	5.81	62	24236	4.848	ug/L	96
29) 1,1,1-Trichloroethane	5.33	97	32513	4.843	ug/L	96
30) Cyclohexane	5.40	56	15926	3.773	ug/L	84
31) Carbon tetrachloride	5.54	117	29997	4.826	ug/L	97
33) Benzene	5.79	78	50794	4.381	ug/L	100
34) Trichloroethene	6.55	95	16361	4.675	ug/L	97
35) Methylcyclohexane	6.77	83	21279	4.458	ug/L	94
37) 1,2-Dichloropropane	6.80	63	11525	4.242	ug/L	98
38) Bromodichloromethane	7.11	83	22711	4.575	ug/L	97
39) cis-1,3-Dichloropropene	7.61	75	21504	4.381	ug/L	96
40) 4-Methyl-2-pentanone	7.80	43	77974	35.820	ug/L #	95
42) Toluene	7.97	91	61928	4.746	ug/L	96
44) trans-1,3-Dichloropropene	8.21	75	22751	4.641	ug/L	96
45) 1,1,2-Trichloroethane	8.40	97	12137	4.632	ug/L	96
47) Tetrachloroethene	8.56	164	15265	5.523	ug/L	96
48) 2-Hexanone	8.69	43	61497	35.157	ug/L #	96
49) Dibromochloromethane	8.81	129	18327	5.134	ug/L	98
50) 1,2-Dibromoethane	8.93	107	12191	4.612	ug/L	89
51) Chlorobenzene	9.45	112	42530	4.891	ug/L	99
52) Ethylbenzene	9.57	91	71039	4.751	ug/L	99
53) m,p-Xylene	9.69	106	27364	5.041	ug/L	98
54) o-Xylene	10.10	106	25546	4.854	ug/L	95
55) Styrene	10.11	104	46562	5.210	ug/L	93
56) Isopropylbenzene	10.48	105	73245	4.930	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	13267	4.122	ug/L #	97
59) 1,2,3-Trichloropropane	10.82	75	11067	4.198	ug/L	98
61) Bromoform	10.29	173	11462	5.141	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	37403	5.002	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	37384	4.876	ug/L	97
65) 1,2-Dichlorobenzene	12.20	146	35979	4.859	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.99	75	3237	4.463	ug/L	95
67) 1,3,5-Trichlorobenzene	13.21	180	29622	4.957	ug/L	98
68) 1,2,4-trichlorobenzene	13.83	180	23547	4.923	ug/L	96
69) Naphthalene	14.08	128	31898	4.244	ug/L	98
70) 1,2,3-Trichlorobenzene	14.32	180	22086	5.217	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.713 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

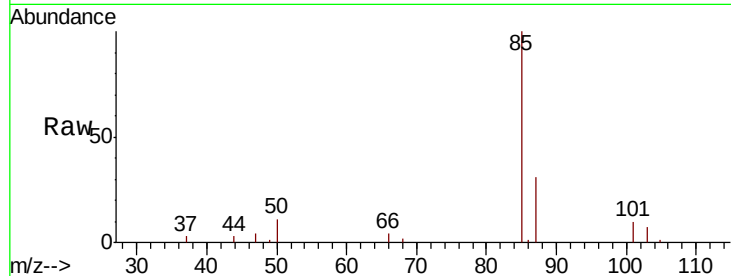
VSTD00509

Tot Ion: 85 Resp: 19179

Ion Ratio Lower Upper

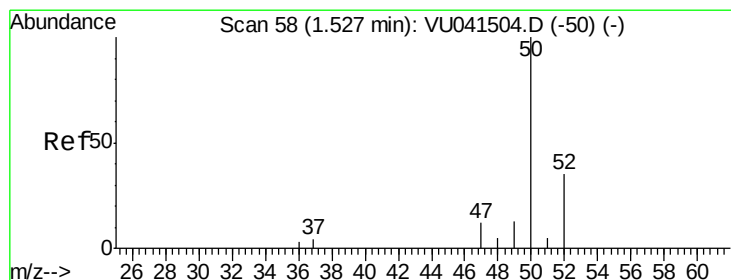
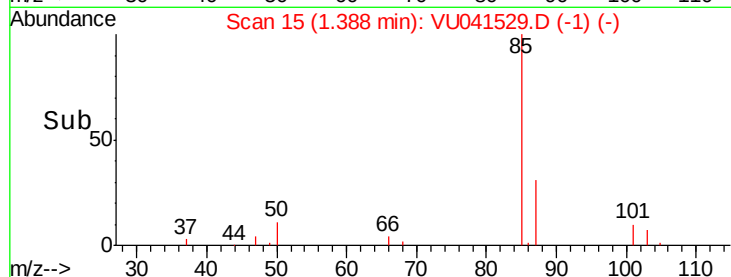
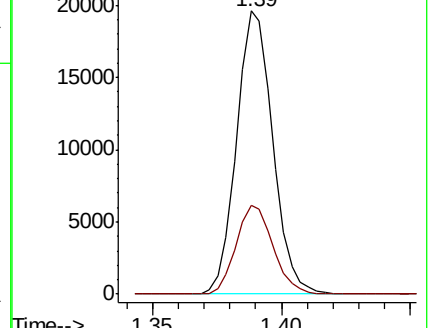
85 100

87 31.8 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VU041504.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU041504.D (-8) (-)



#3

Chloromethane

Concen: 3.696 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU041529.D

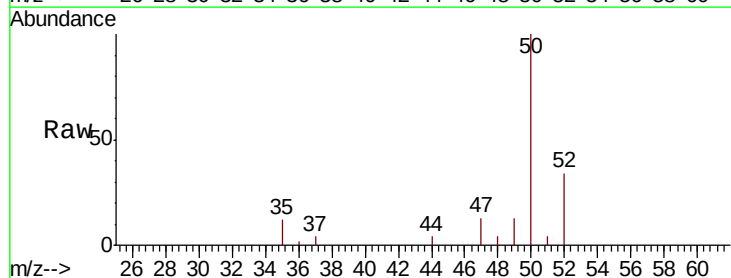
Acq: 10 Dec 2020 11:28

Tgt Ion: 50 Resp: 9722

Ion Ratio Lower Upper

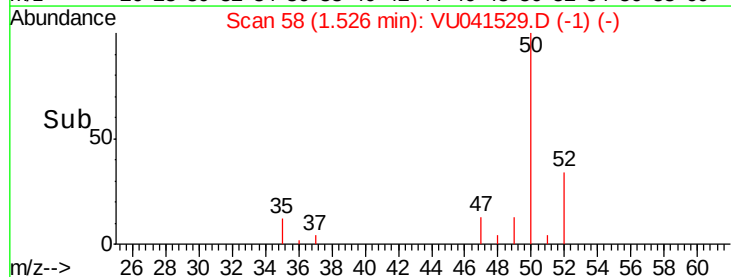
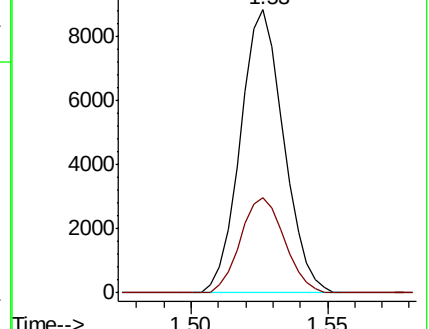
50 100

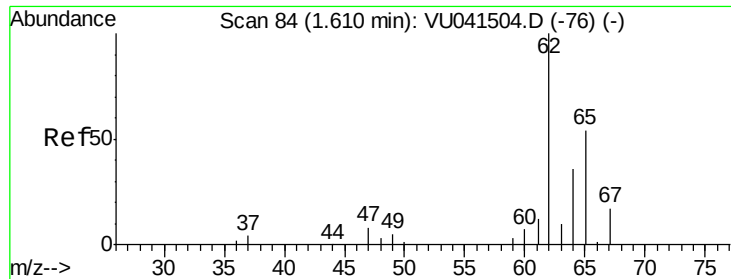
52 33.6 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU041504.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU041504.D (-50) (-)





#5

Vinyl chloride

Concen: 3.877 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

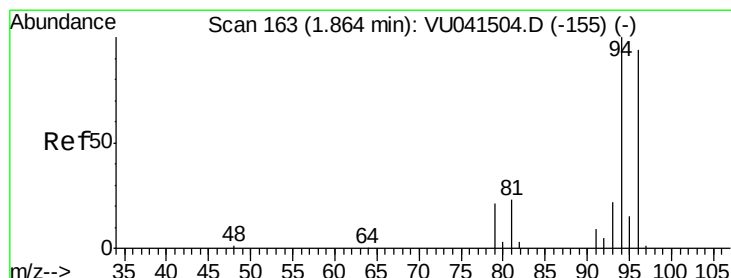
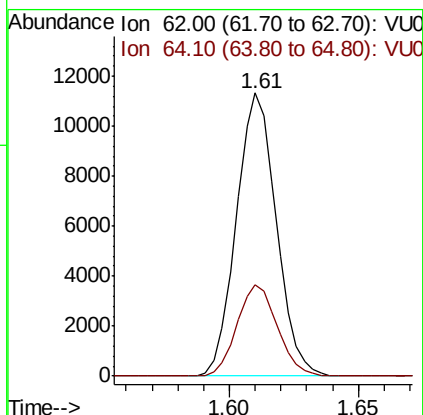
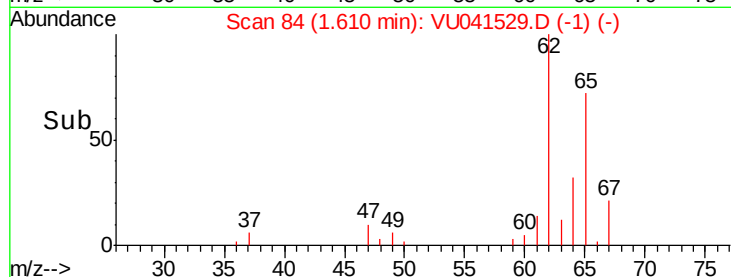
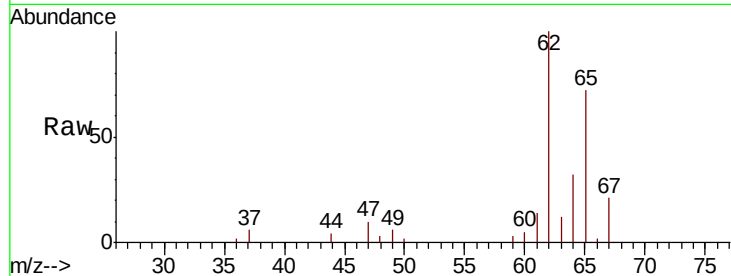
VSTD00509

Tot Ion: 62 Resp: 12157

Ion Ratio Lower Upper

62 100

64 32.1 23.0 42.8



#6

Bromomethane

Concen: 4.660 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU041529.D

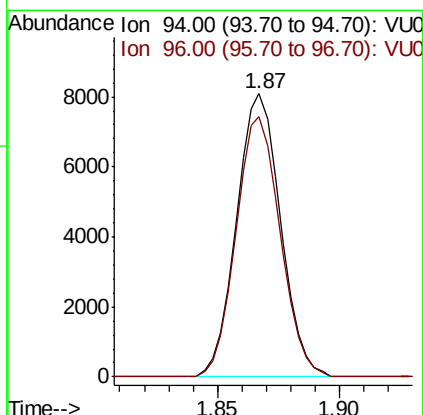
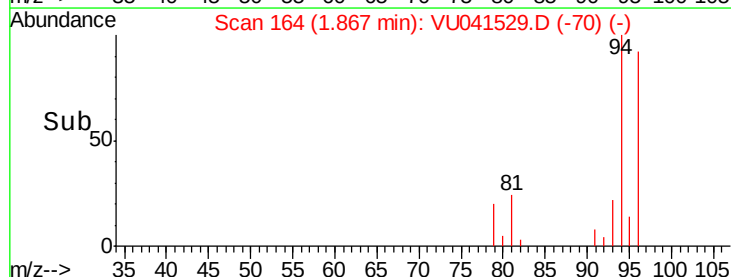
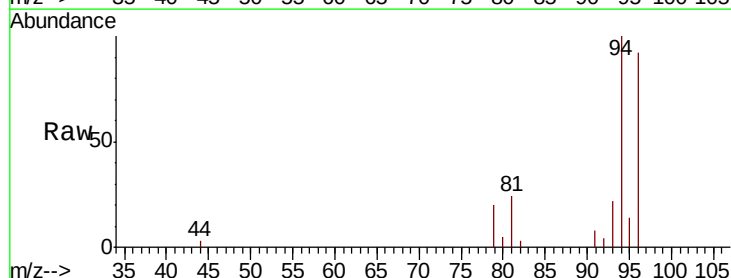
Acq: 10 Dec 2020 11:28

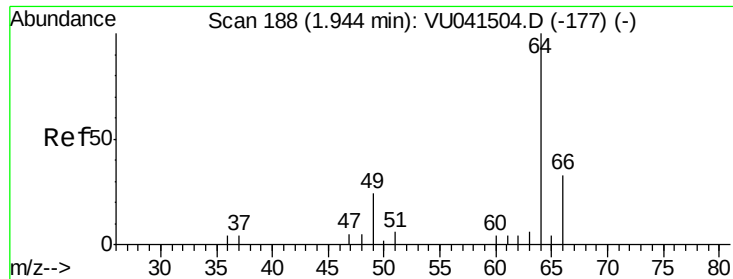
Tgt Ion: 94 Resp: 10103

Ion Ratio Lower Upper

94 100

96 92.0 68.5 127.1





#8

Chloroethane

Concen: 4.054 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

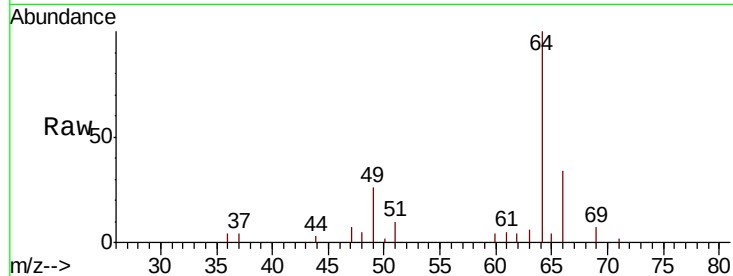
VSTD00509

Tot Ion: 64 Resp: 8269

Ion Ratio Lower Upper

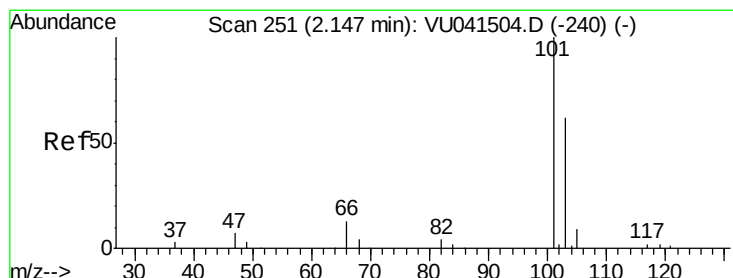
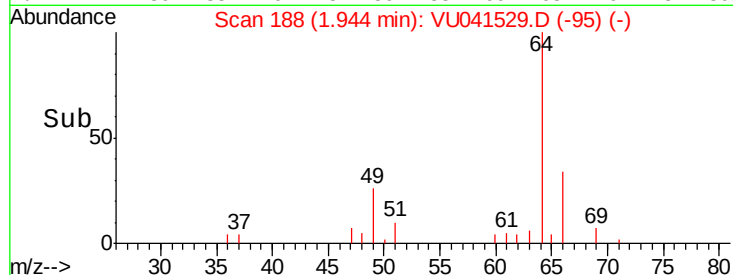
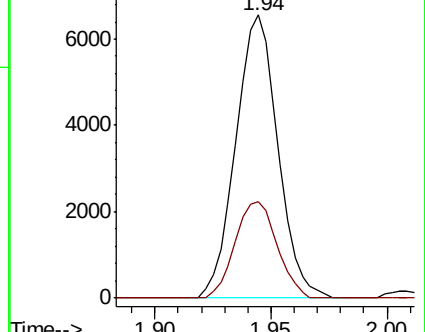
64 100

66 33.9 20.9 38.9



Abundance Ion 64.10 (63.80 to 64.80): VU041529.D (-95) (-)

Ion 66.05 (65.75 to 66.75): VU041529.D (-95) (-)



#9

Trichlorofluoromethane

Concen: 5.124 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU041529.D

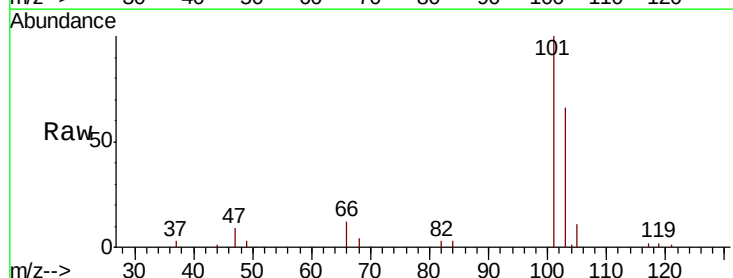
Acq: 10 Dec 2020 11:28

Tgt Ion:101 Resp: 35799

Ion Ratio Lower Upper

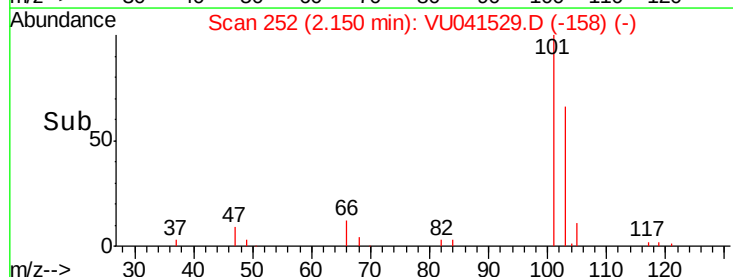
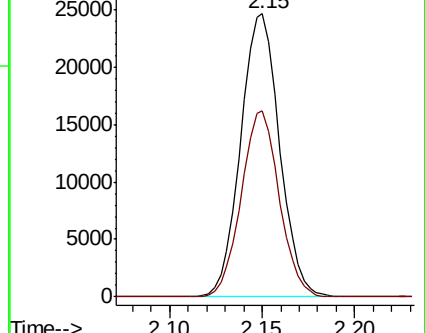
101 100

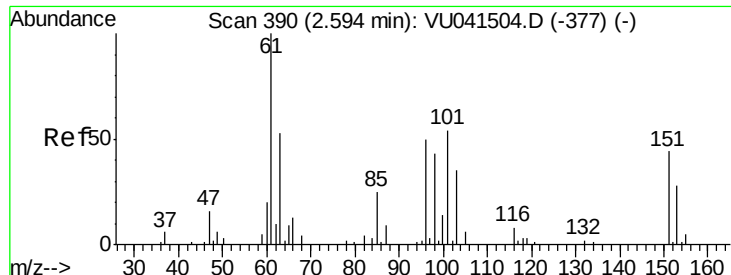
103 64.0 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU041529.D (-158) (-)

Ion 103.00 (102.70 to 103.70): VU041529.D (-158) (-)





#10

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

Concen: 4.936 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

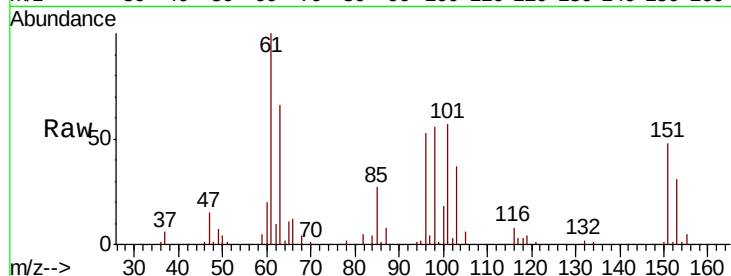
Tot Ion:101 Resp: 15457

Ion Ratio Lower Upper

101 100

85 46.5 39.4 59.2

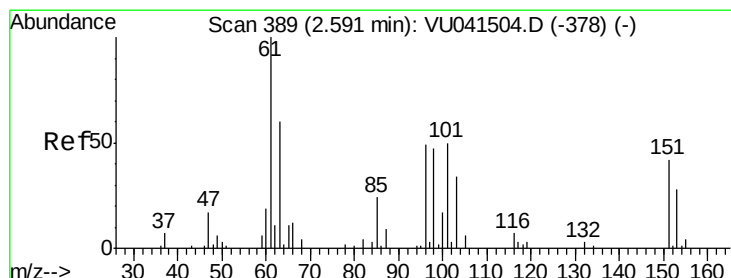
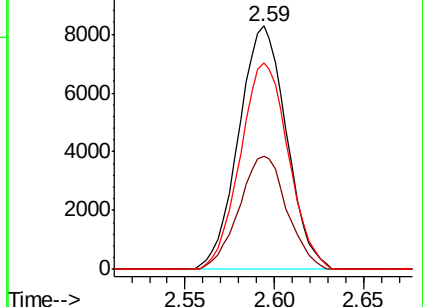
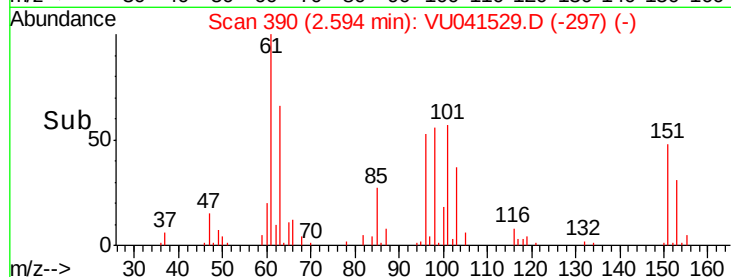
151 85.6 63.8 95.8



Abundance Ion 101.00 (100.70 to 101.70): VU041529.D (-297) (-)

Ion 85.00 (84.70 to 85.70): VU041529.D (-297) (-)

Ion 151.00 (150.70 to 151.70): VU041529.D (-297) (-)



#12

1,1-Dichloroethene

Concen: 4.713 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

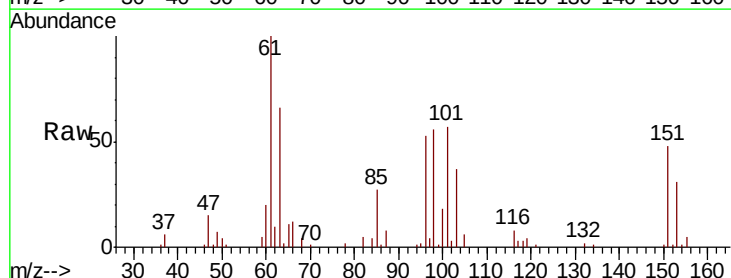
Tgt Ion: 96 Resp: 12680

Ion Ratio Lower Upper

96 100

61 189.4 127.8 237.4

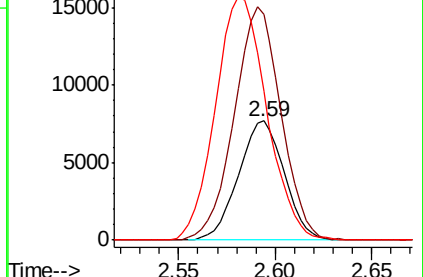
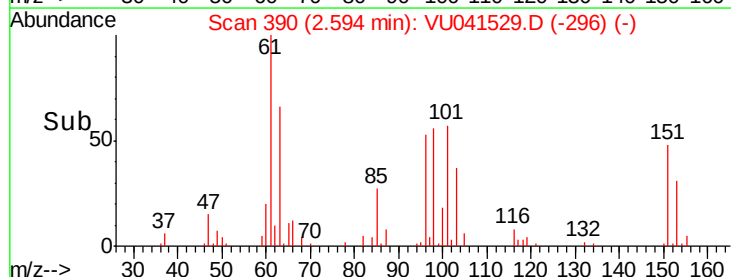
63 125.5 86.2 160.0

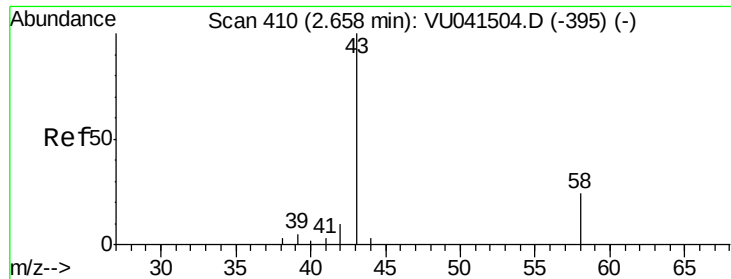


Abundance Ion 96.00 (95.70 to 96.70): VU041529.D (-296) (-)

Ion 61.05 (60.75 to 61.75): VU041529.D (-296) (-)

Ion 63.00 (62.70 to 63.70): VU041529.D (-296) (-)





#13

Acetone

Concen: 39.461 ug/L

RT: 2.66 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

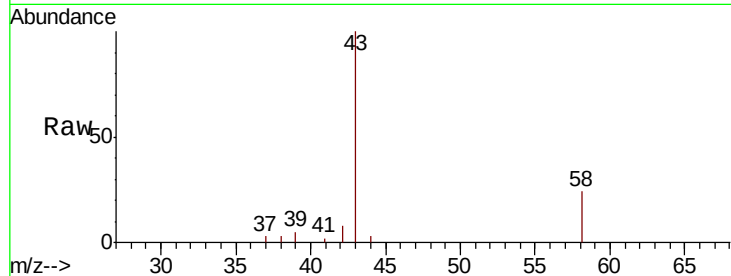
VSTD00509

Tot Ion: 43 Resp: 27195

Ion Ratio Lower Upper

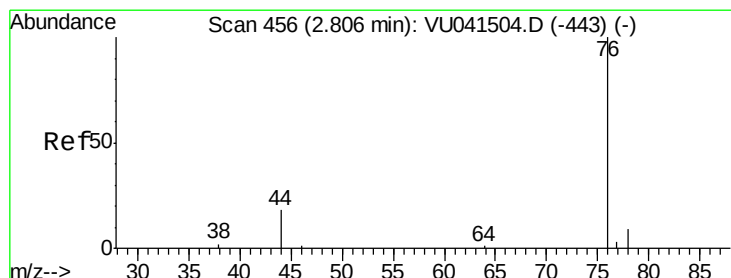
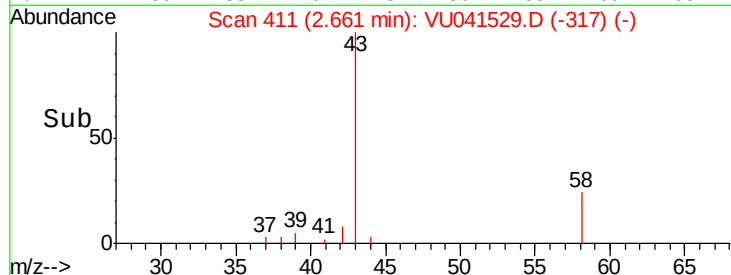
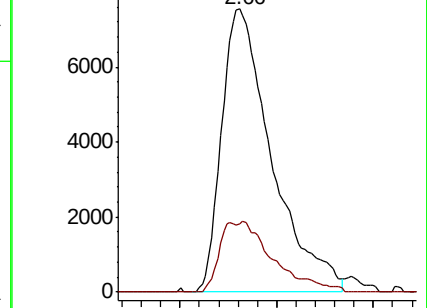
43 100

58 8.8 0.0 50.0



Abundance Ion 43.05 (42.75 to 43.75): VU041504.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU041504.D (-395) (-)



#14

Carbon disulfide

Concen: 4.387 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU041529.D

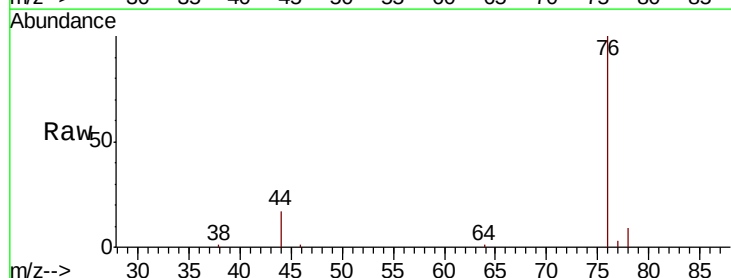
Acq: 10 Dec 2020 11:28

Tgt Ion: 76 Resp: 36380

Ion Ratio Lower Upper

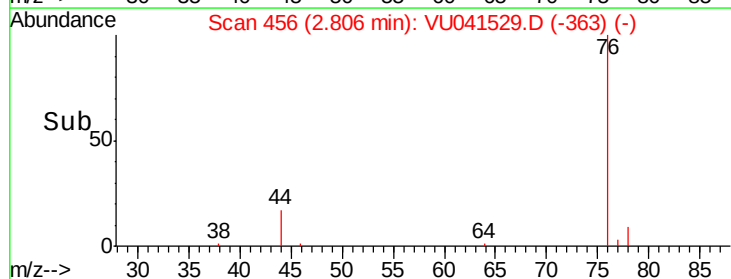
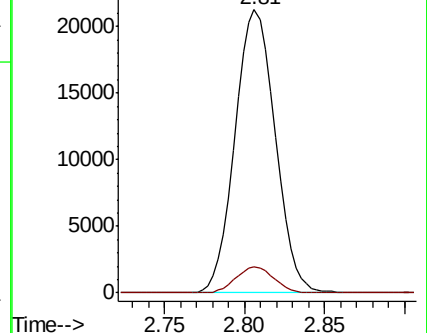
76 100

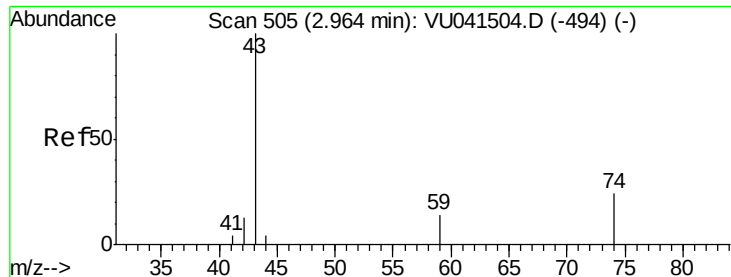
78 9.1 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU041504.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU041504.D (-443) (-)

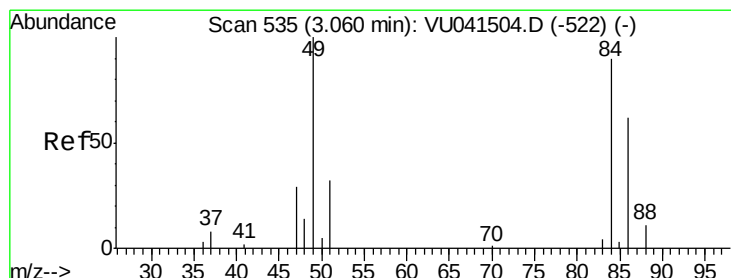
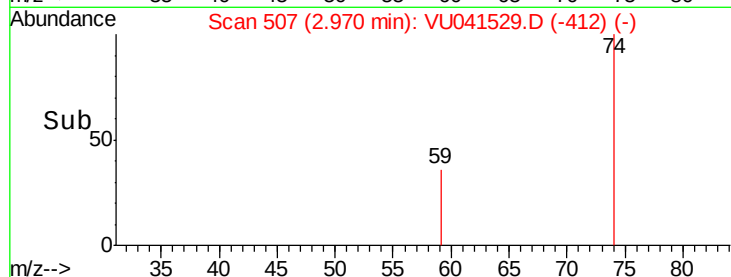
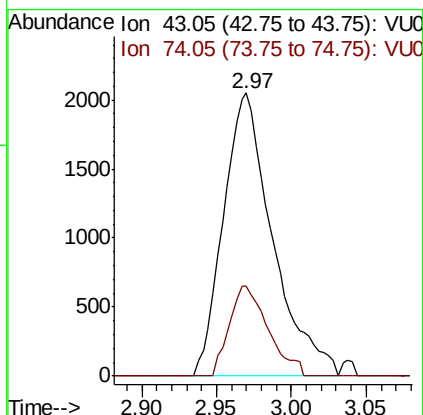
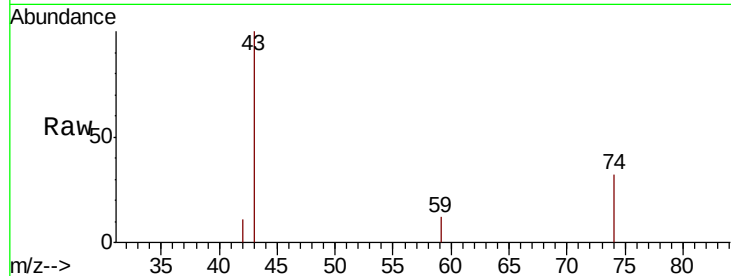




#15
Methvl Acetate
Concen: 3.717 ug/L
RT: 2.97 min Scan# 507
Delta R.T. 0.01 min
Lab File: VU041529.D
Acq: 10 Dec 2020 11:28

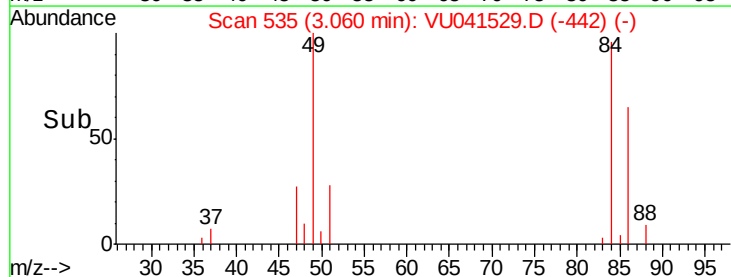
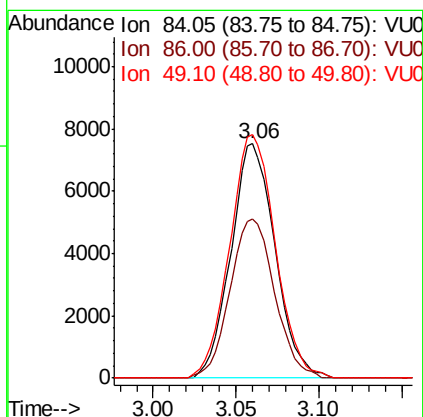
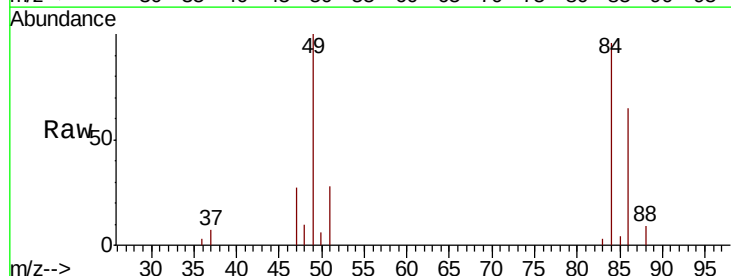
Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

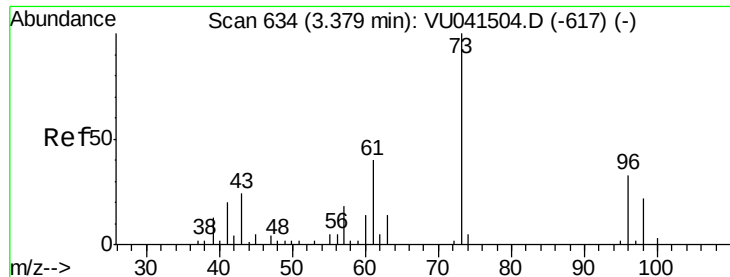
Tot Ion: 43 Resp: 4688
Ion Ratio Lower Upper
43 100
74 25.1 19.7 29.5



#16
Methylene chloride
Concen: 3.897 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU041529.D
Acq: 10 Dec 2020 11:28

Tgt Ion: 84 Resp: 13993
Ion Ratio Lower Upper
84 100
86 68.0 44.1 81.9
49 104.0 86.1 159.9

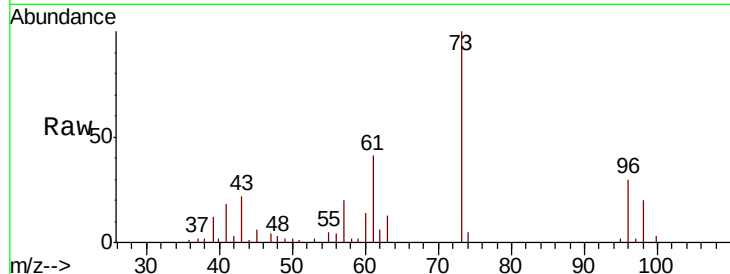




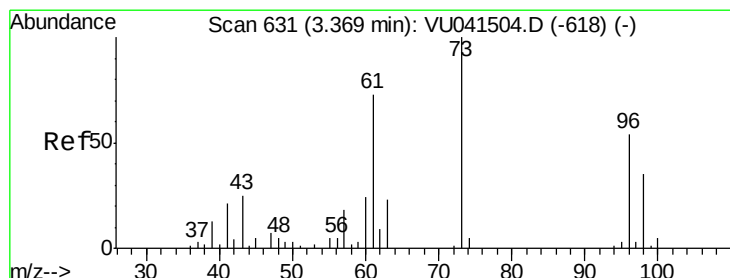
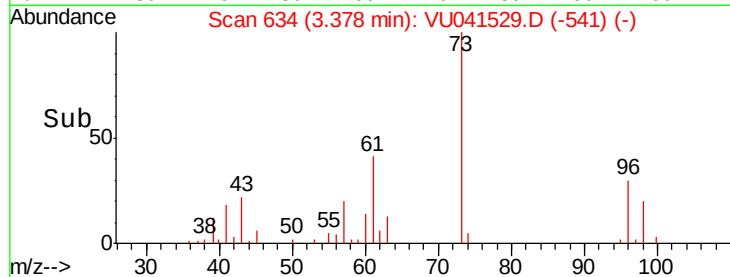
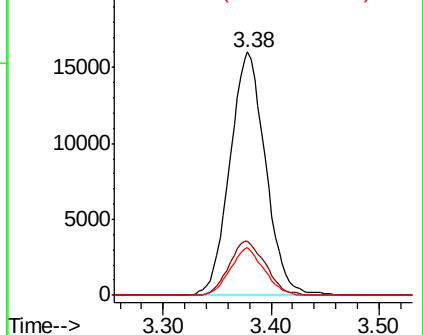
#17
Methyl tert-butyl Ether
Concen: 4.512 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU041529.D
Acq: 10 Dec 2020 11:28

Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

Tot Ion: 73 Resp: 36837
Ion Ratio Lower Upper
73 100
43 22.6 19.1 28.7
57 18.6 15.5 23.3

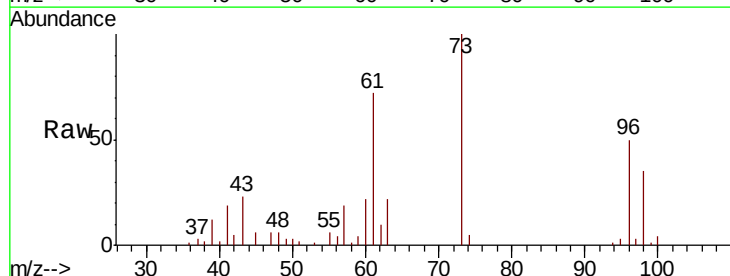


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

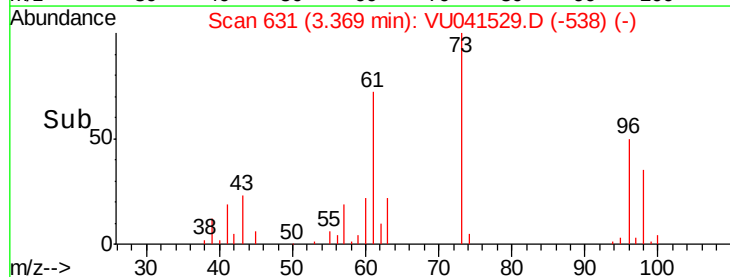
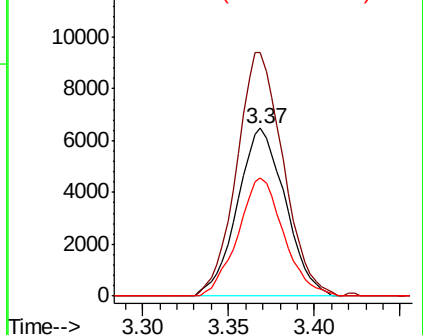


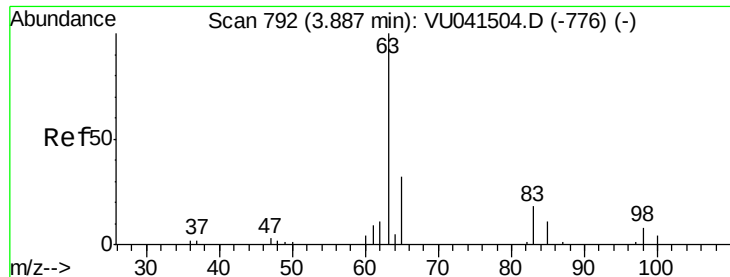
#18
trans-1,2-Dichloroethene
Concen: 4.628 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU041529.D
Acq: 10 Dec 2020 11:28

Tgt Ion: 96 Resp: 12576
Ion Ratio Lower Upper
96 100
61 145.3 98.8 183.4
98 70.7 41.7 77.5



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

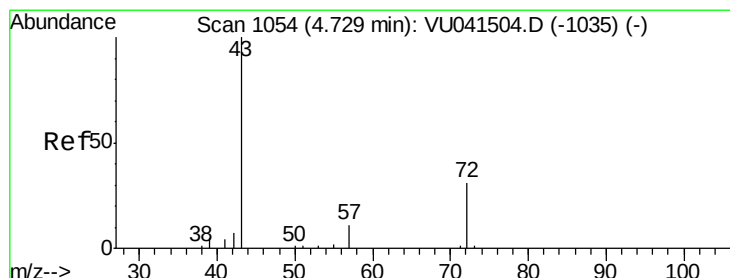
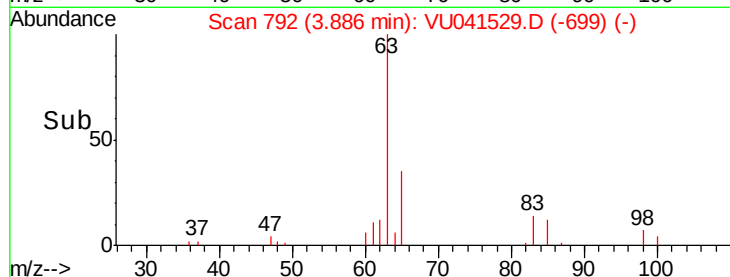
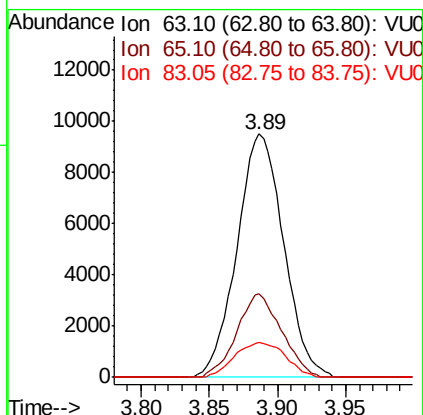
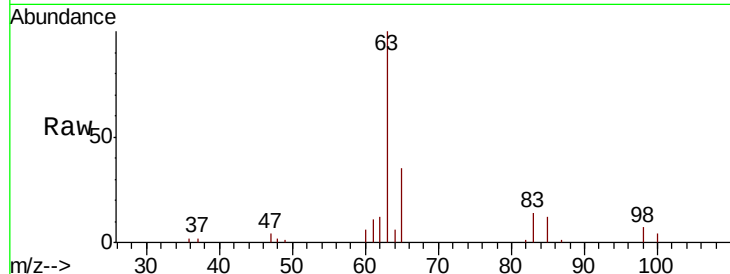




#19
 1,1-Dichloroethane
 Concen: 4.499 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

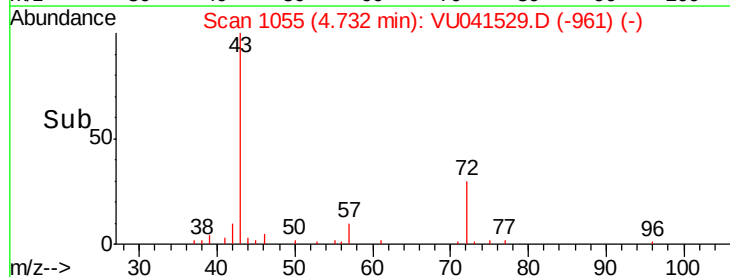
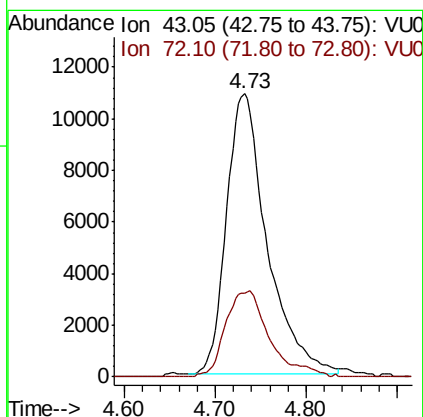
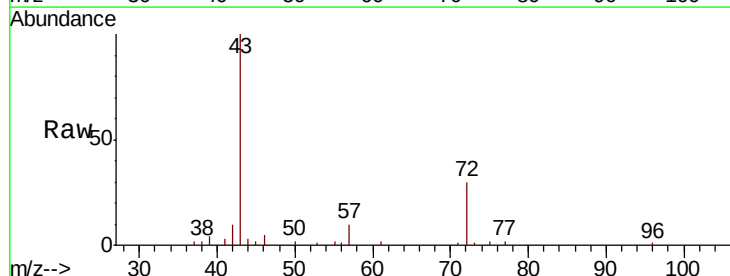
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

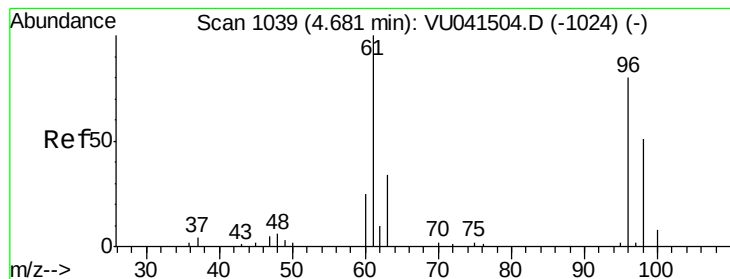
Tot Ion: 63 Resp: 22586
 Ion Ratio Lower Upper
 63 100
 65 34.6 22.3 41.5
 83 14.4 11.1 20.7



#21
 2-Butanone
 Concen: 39.200 ug/L
 RT: 4.73 min Scan# 1055
 Delta R.T. 0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Tgt Ion: 43 Resp: 33803
 Ion Ratio Lower Upper
 43 100
 72 33.0 15.7 47.1





#22

cis-1,2-Dichloroethene

Concen: 4.809 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

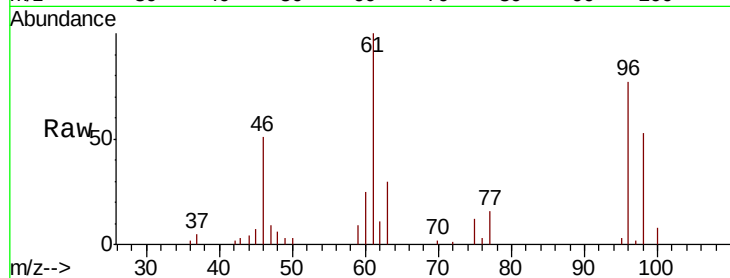
Tot Ion: 96 Resp: 14490

Ion Ratio Lower Upper

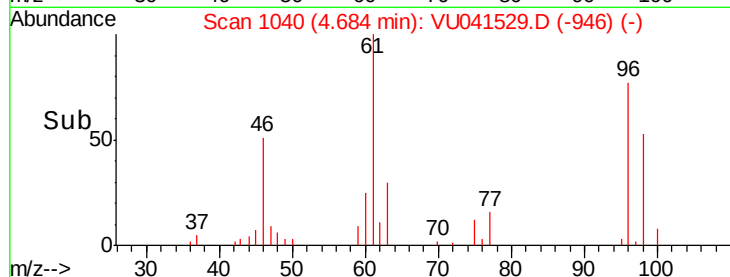
96 100

61 129.2 90.5 168.1

68 0.0 0.0 0.0



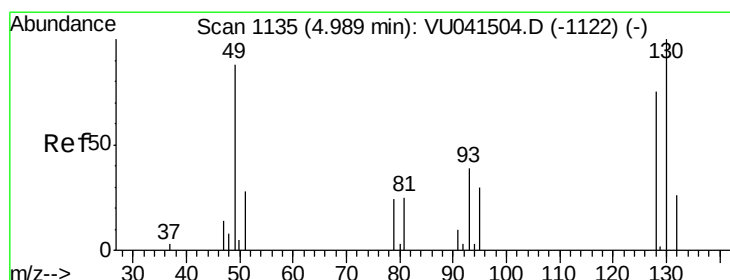
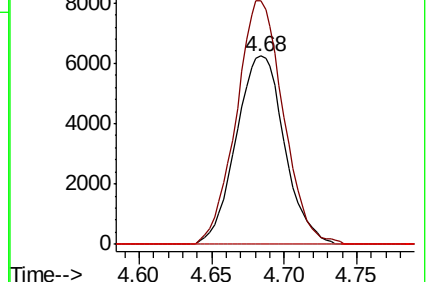
Abundance Ion 96.00 (95.70 to 96.70): VU041529.D (-946) (-)



Ion 61.05 (60.75 to 61.75): VU041529.D (-946) (-)

Ion 68.15 (67.85 to 68.85): VU041529.D (-946) (-)

Time-->



#23

Bromochloromethane

Concen: 4.829 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Tgt Ion: 128 Resp: 7605

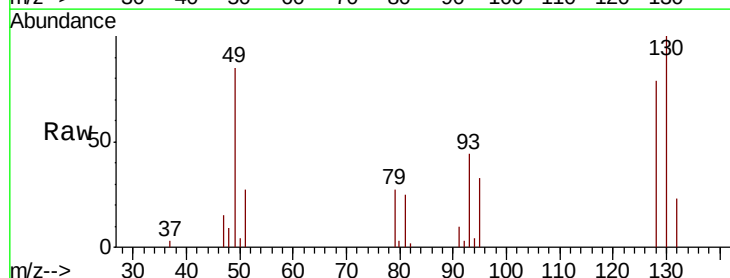
Ion Ratio Lower Upper

128 100

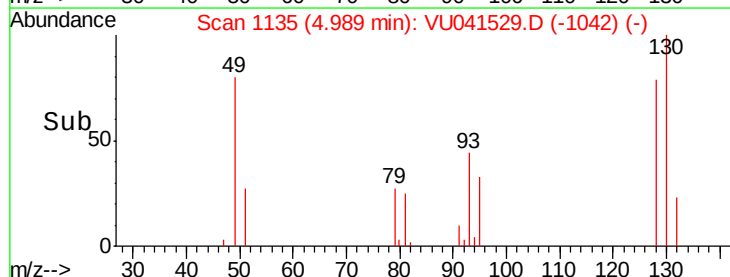
49 108.2 84.2 156.4

130 127.1 89.9 167.0

51 34.8 30.4 45.6



Abundance Ion 127.90 (127.60 to 128.60): VU041529.D (-1042) (-)

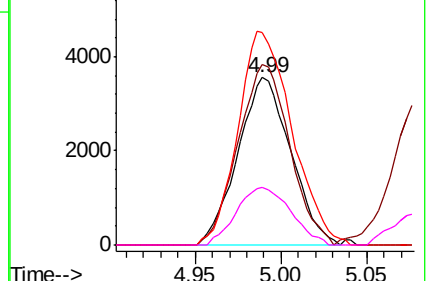


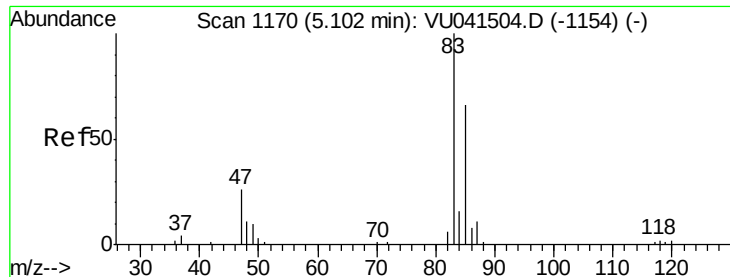
Ion 49.10 (48.80 to 49.80): VU041529.D (-1042) (-)

Ion 129.95 (129.65 to 130.65): VU041529.D (-1042) (-)

Ion 51.05 (50.75 to 51.75): VU041529.D (-1042) (-)

Time-->

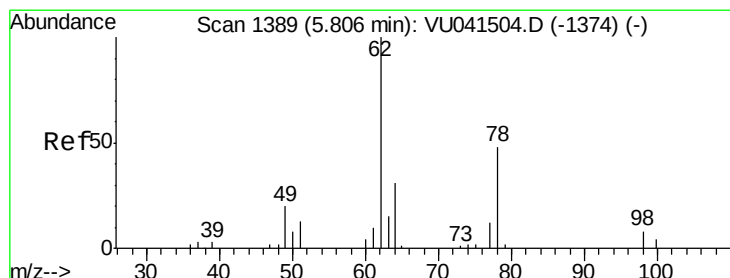
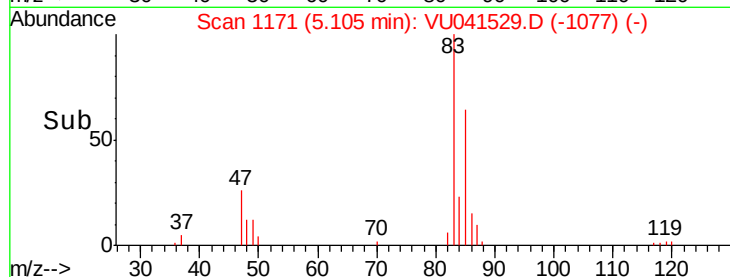
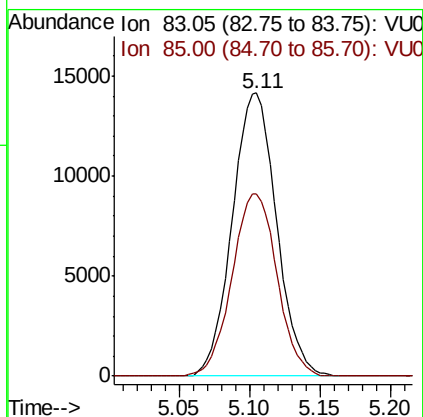
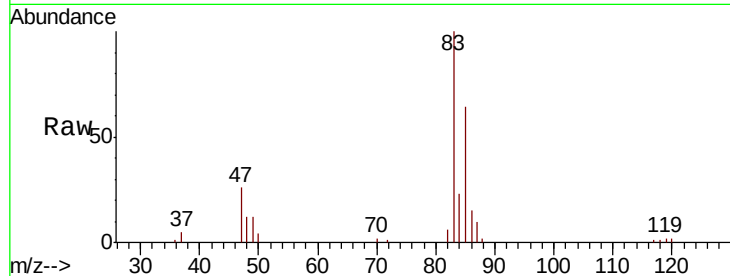




#25
Chloroform
Concen: 4.855 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041529.D
Acq: 10 Dec 2020 11:28

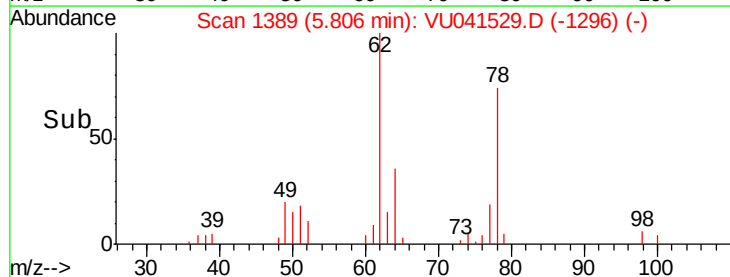
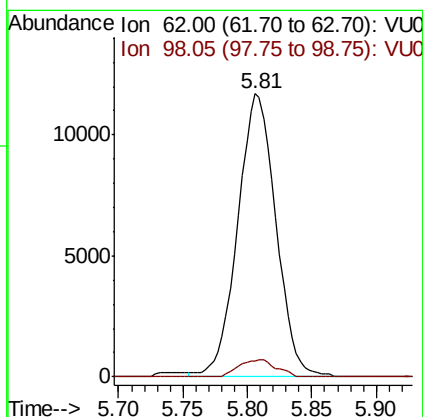
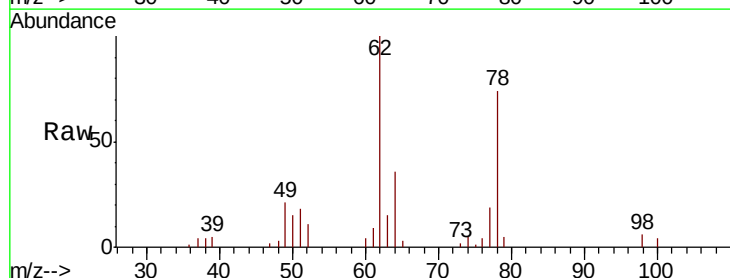
Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

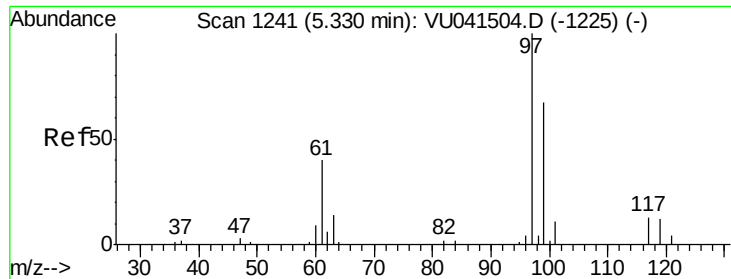
Tot Ion: 83 Resp: 31053
Ion Ratio Lower Upper
83 100
85 64.4 44.7 82.9



#27
1,2-Dichloroethane
Concen: 4.848 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VU041529.D
Acq: 10 Dec 2020 11:28

Tgt Ion: 62 Resp: 24236
Ion Ratio Lower Upper
62 100
98 5.7 5.7 8.5



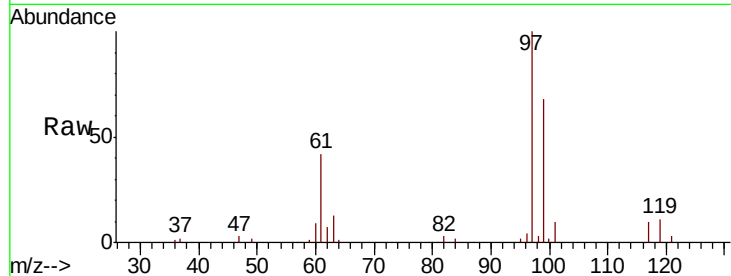


#29
 1,1,1-Trichloroethane
 Concen: 4.843 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

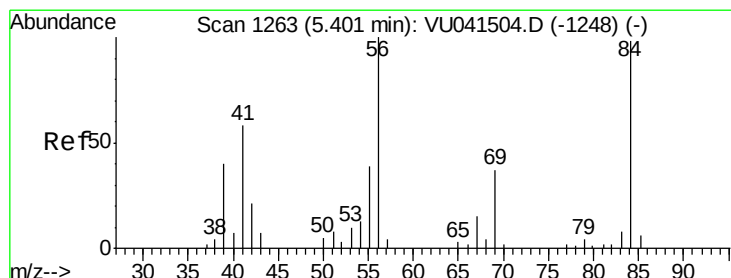
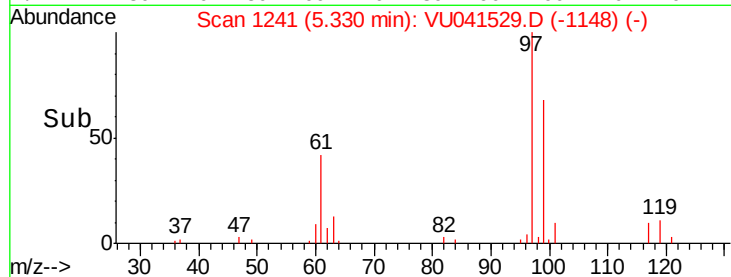
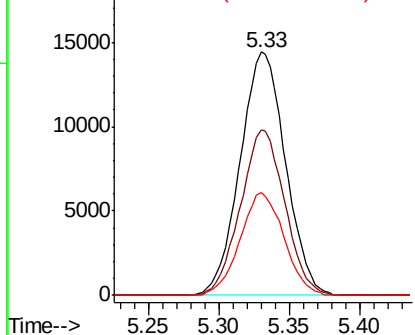
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

Tot Ion: 97 Resp: 32513

Ion	Ratio	Lower	Upper
97	100		
99	66.3	51.0	76.6
61	40.7	34.6	52.0



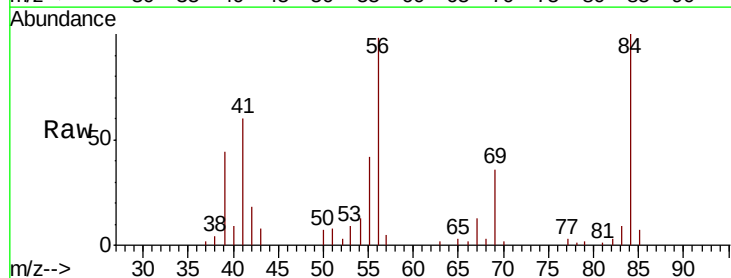
Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0



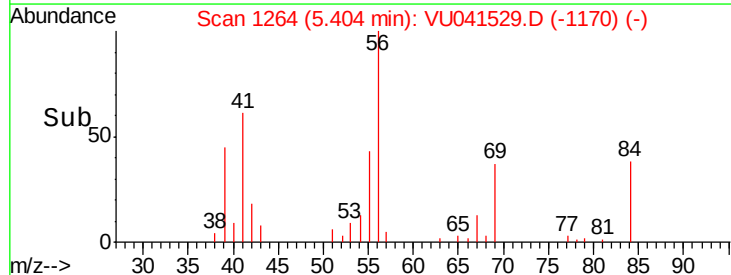
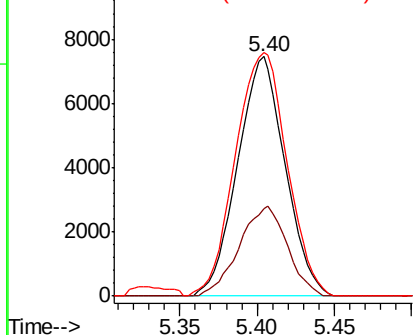
#30
 Cyclohexane
 Concen: 3.773 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

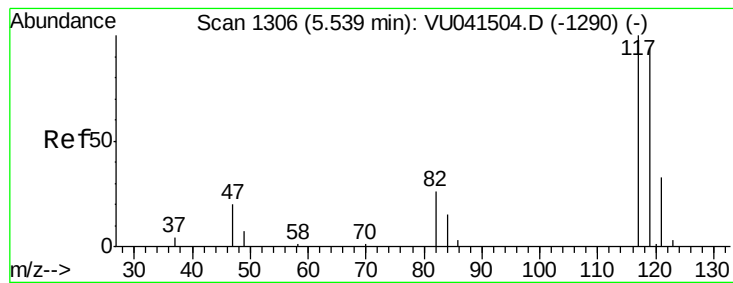
Tgt Ion: 56 Resp: 15926

Ion	Ratio	Lower	Upper
56	100		
69	37.9	25.9	38.9
84	110.6	74.9	112.3



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: 4.826 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

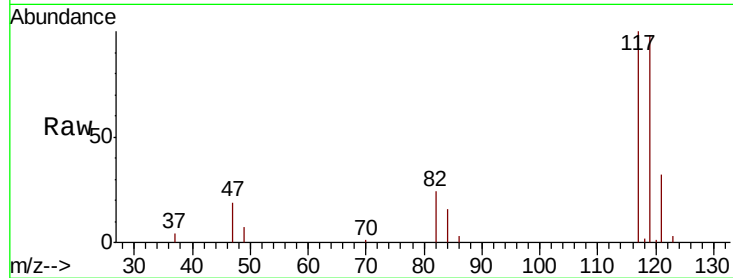
VSTD00509

Tot Ion:117 Resp: 29997

Ion Ratio Lower Upper

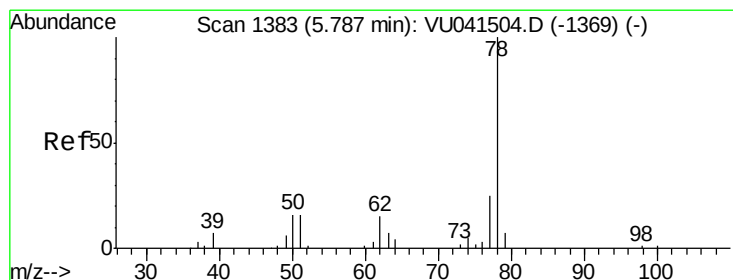
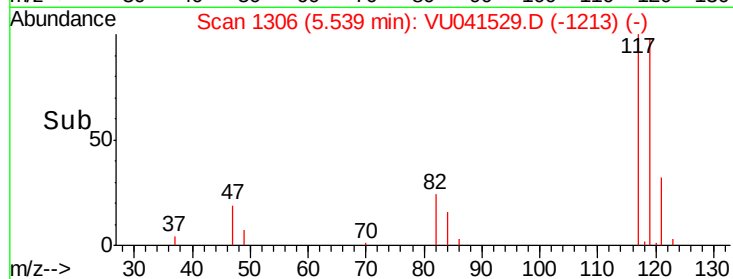
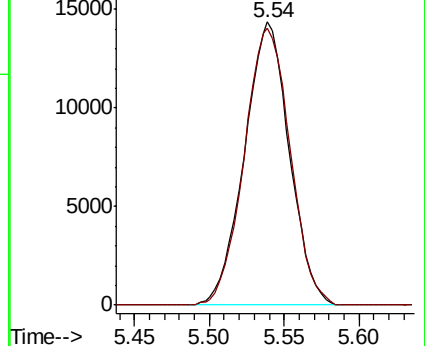
117 100

119 99.9 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.381 ug/L

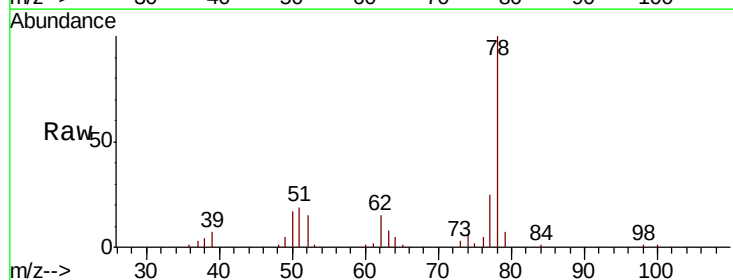
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

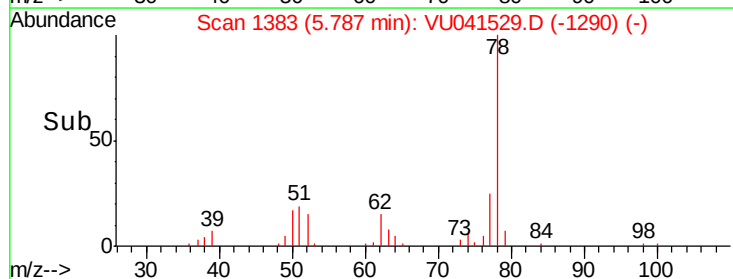
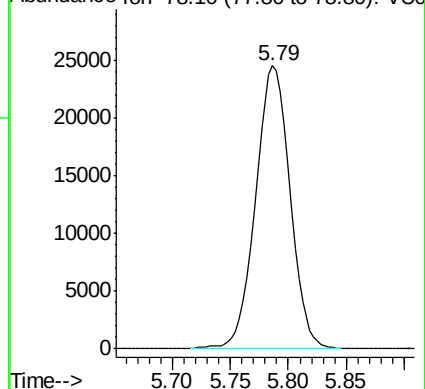
Lab File: VU041529.D

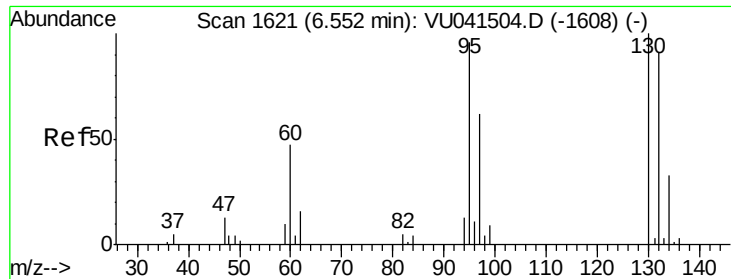
Acq: 10 Dec 2020 11:28

Tgt Ion: 78 Resp: 50794



Abundance Ion 78.10 (77.80 to 78.80): VU0

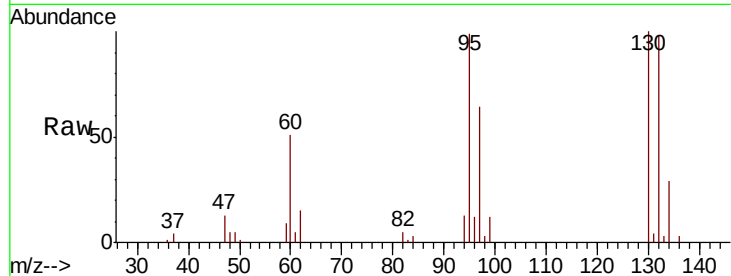




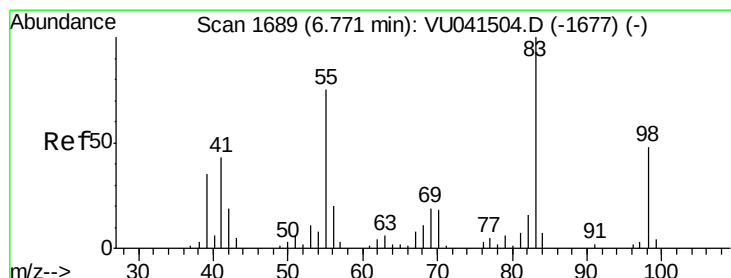
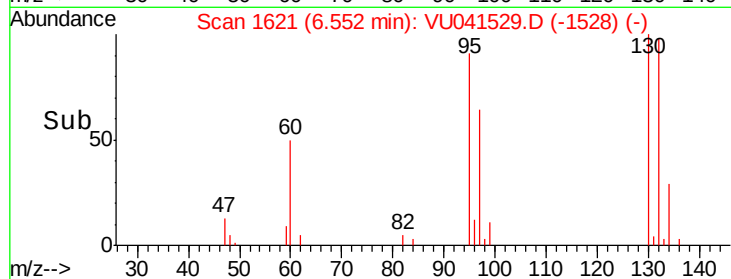
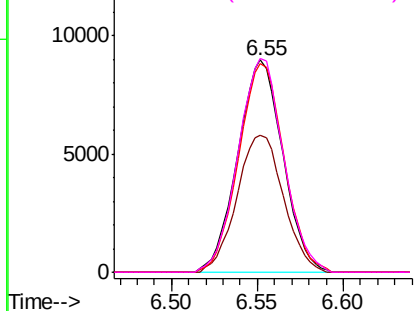
#34
 Trichloroethene
 Concen: 4.675 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

Tot Ion: 95 Resp: 16361
 Ion Ratio Lower Upper
 95 100
 97 64.5 44.7 83.1
 132 98.3 65.7 121.9
 130 100.6 68.8 127.8

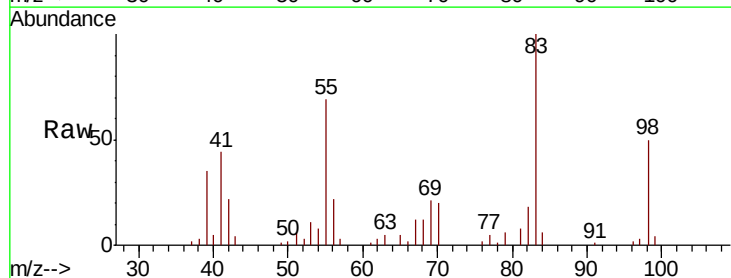


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

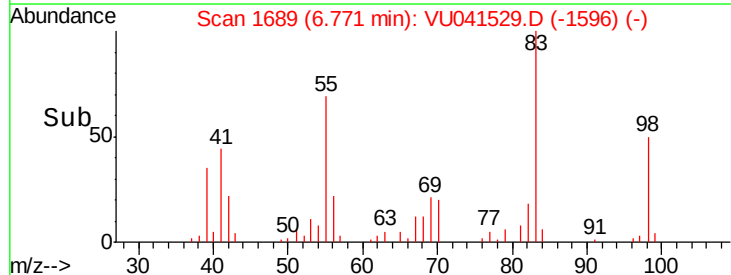
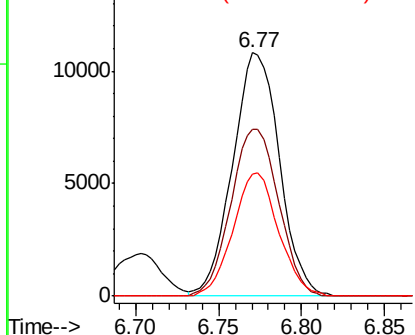


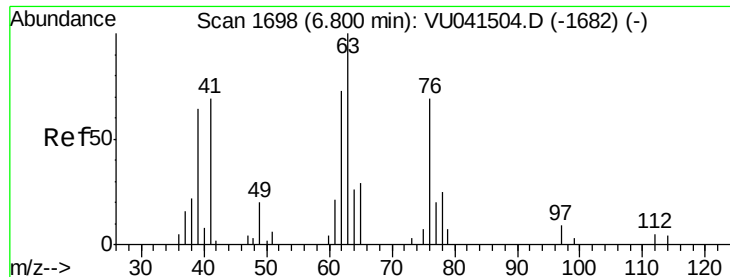
#35
 Methylcyclohexane
 Concen: 4.458 ug/L
 RT: 6.77 min Scan# 1689
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Tgt Ion: 83 Resp: 21279
 Ion Ratio Lower Upper
 83 100
 55 69.9 62.1 93.1
 98 49.2 38.7 58.1



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

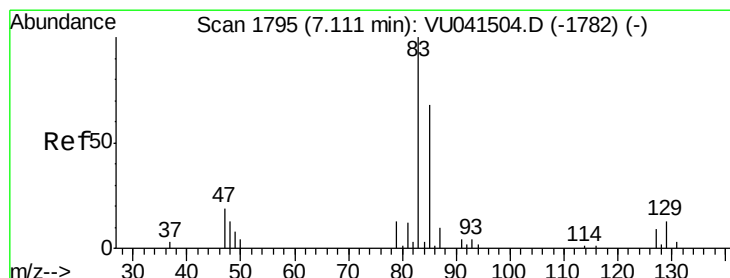
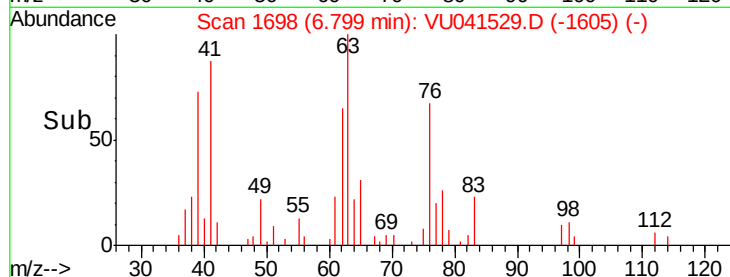
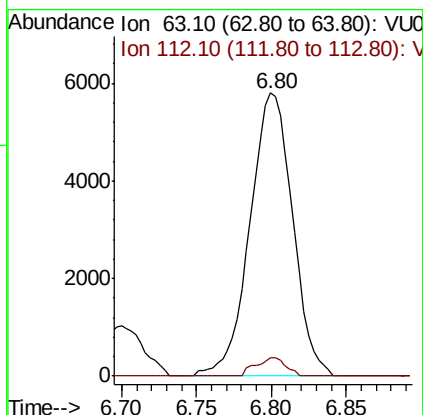
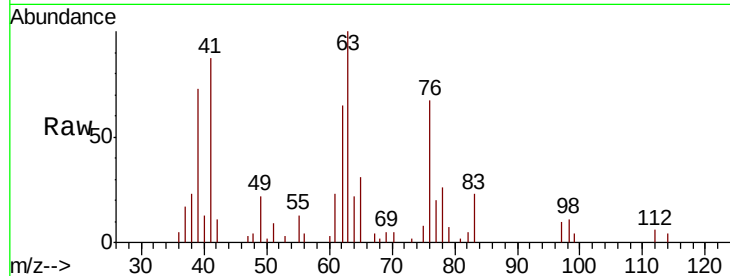




#37
 1,2-Dichloropropane
 Concen: 4.242 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

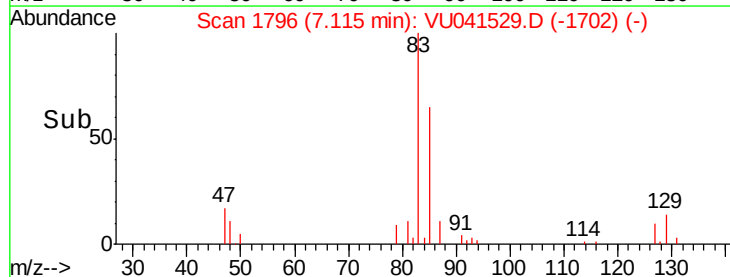
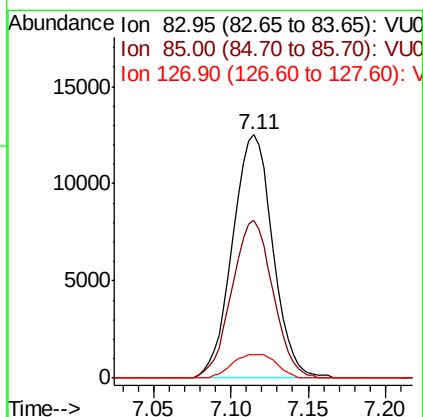
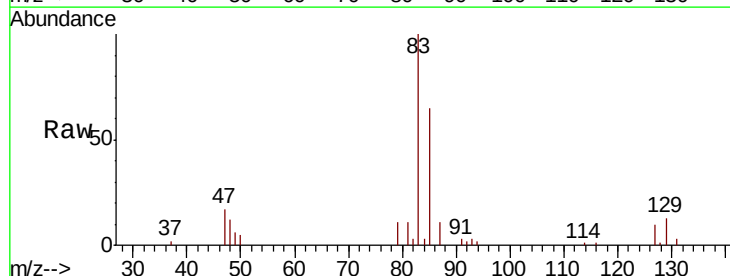
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

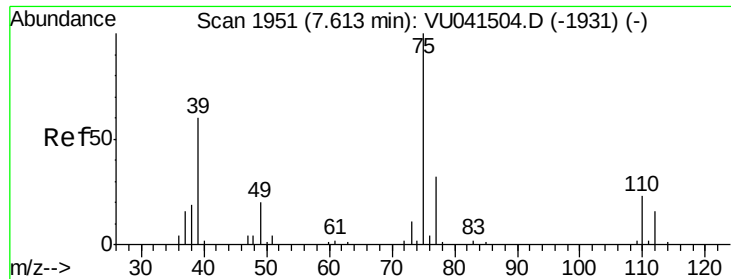
Tot Ion: 63 Resp: 11525
 Ion Ratio Lower Upper
 63 100
 112 4.6 4.2 6.2



#38
 Bromodichloromethane
 Concen: 4.575 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Tgt Ion: 83 Resp: 22711
 Ion Ratio Lower Upper
 83 100
 85 64.6 46.7 86.7
 127 9.7 6.6 10.0

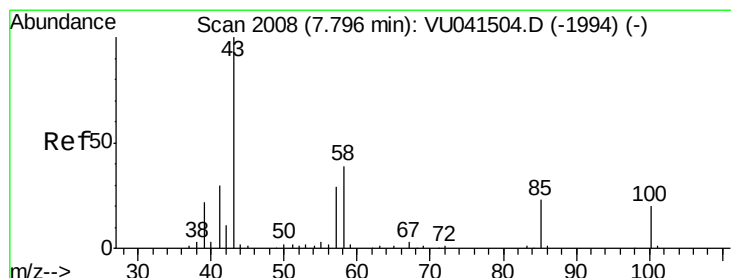
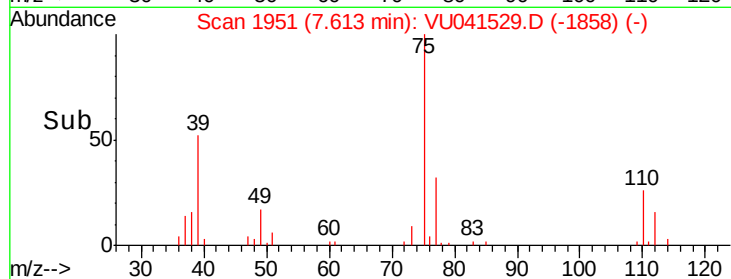
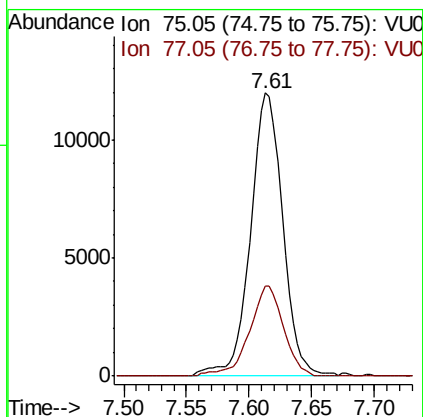
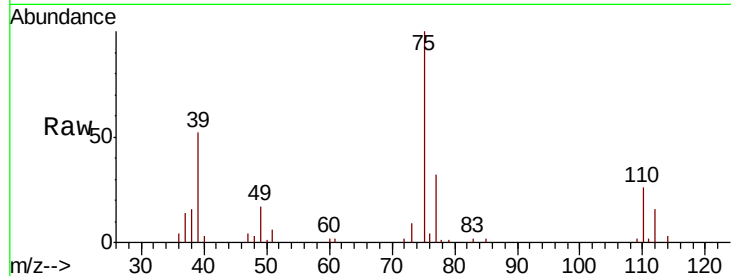




#39
 cis-1,3-Dichloropropene
 Concen: 4.381 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

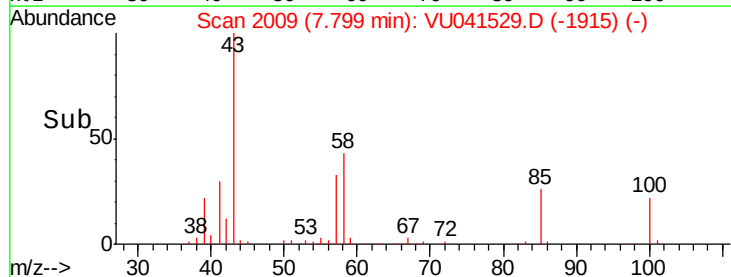
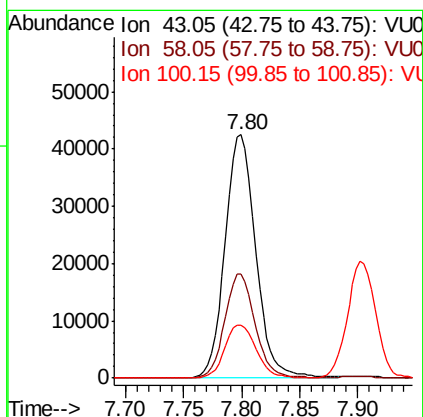
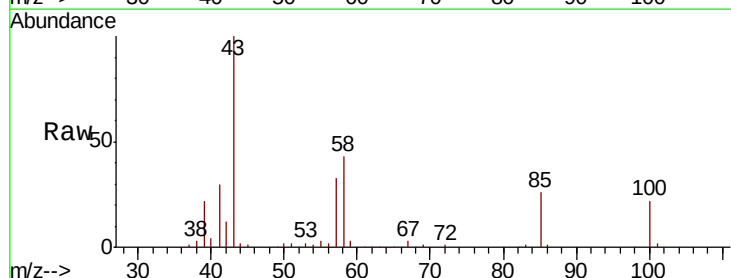
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

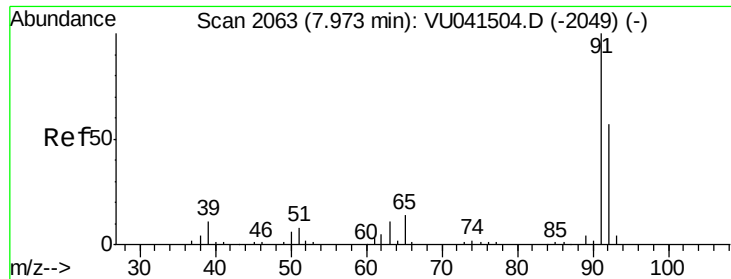
Tot Ion: 75 Resp: 21504
 Ion Ratio Lower Upper
 75 100
 77 31.8 24.0 44.6



#40
 4-Methyl-2-pentanone
 Concen: 35.820 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Tgt Ion: 43 Resp: 77974
 Ion Ratio Lower Upper
 43 100
 58 42.0 32.0 48.0
 100 22.3 14.2 21.2#





#42

Toluene

Concen: 4.746 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

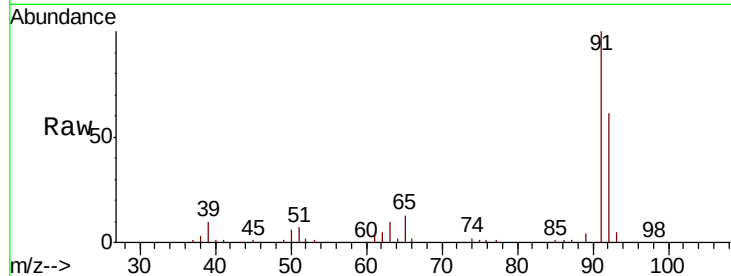
VSTD00509

Tot Ion: 91 Resp: 61928

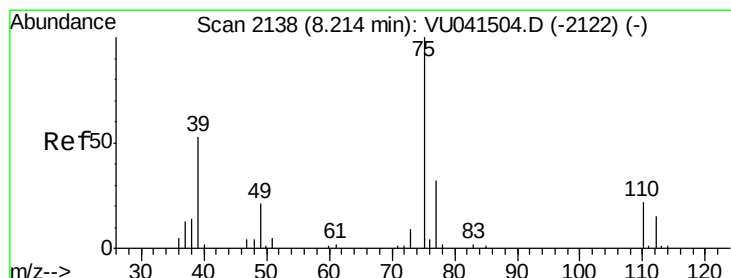
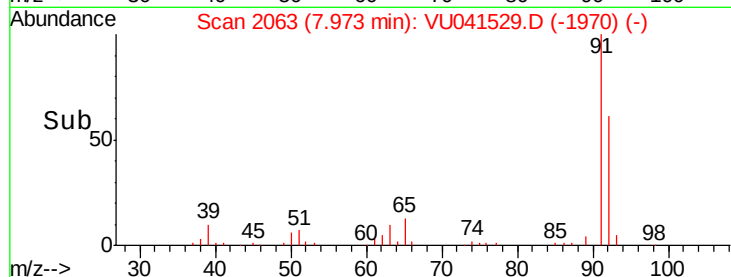
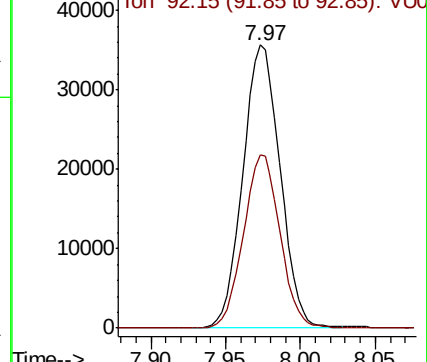
Ion Ratio Lower Upper

91 100

92 61.3 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VU041504.D (-2049) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.641 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU041529.D

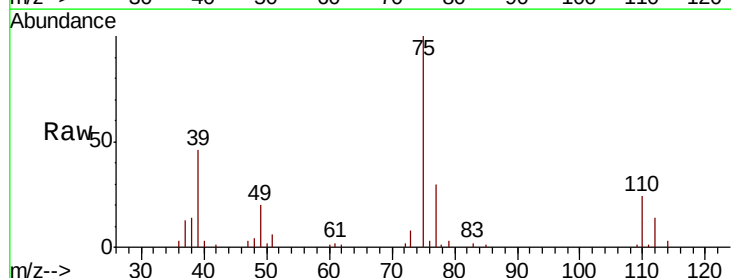
Acq: 10 Dec 2020 11:28

Tgt Ion: 75 Resp: 22751

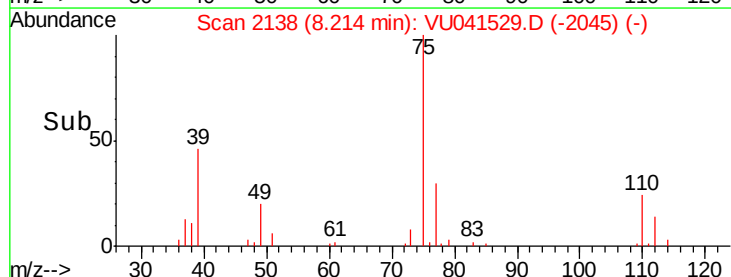
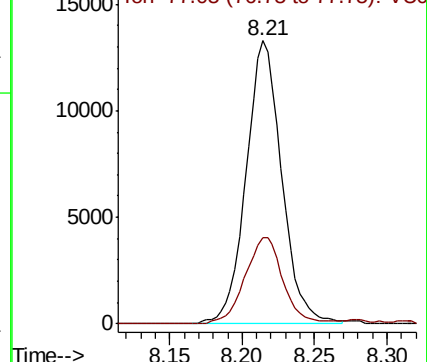
Ion Ratio Lower Upper

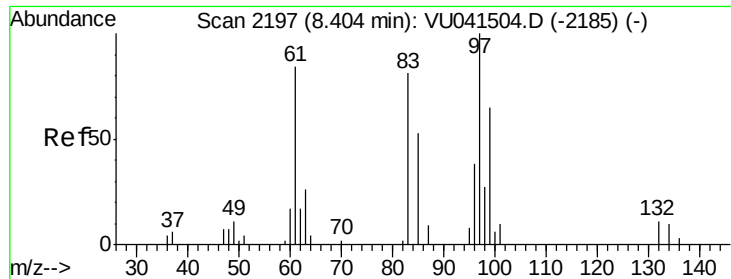
75 100

77 30.4 22.7 42.3



Abundance Ion 75.05 (74.75 to 75.75): VU041504.D (-2122) (-)

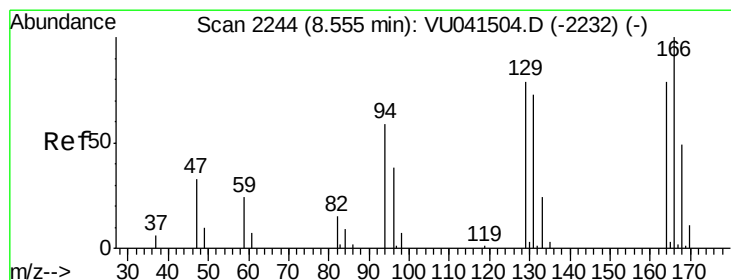
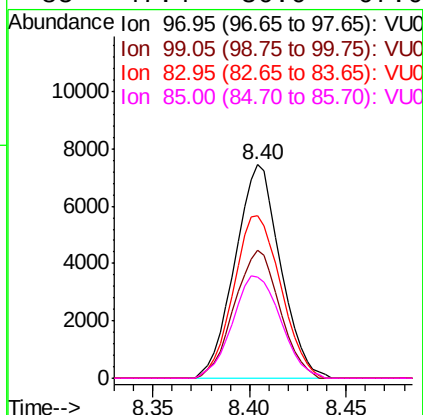
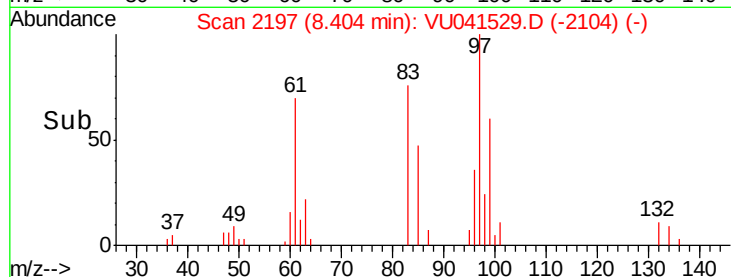
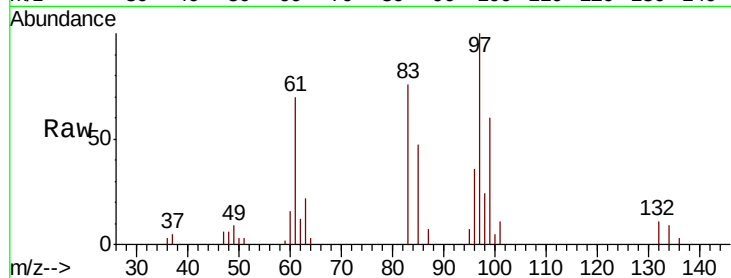




#45
 1,1,2-Trichloroethane
 Concen: 4.632 ug/L
 RT: 8.40 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

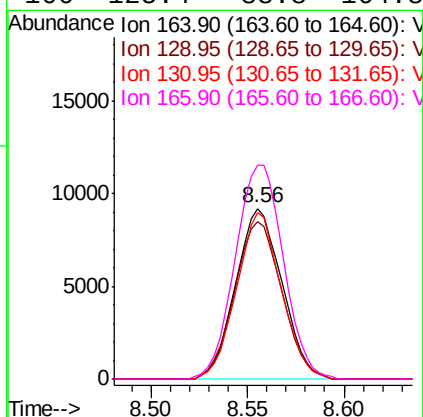
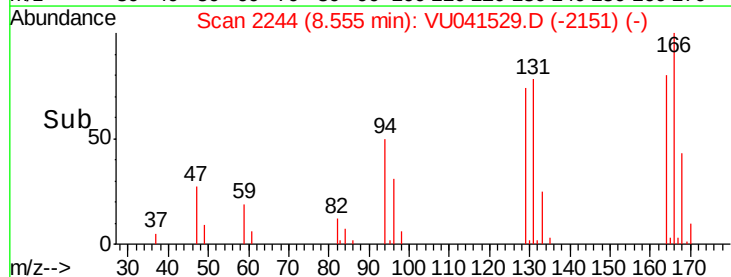
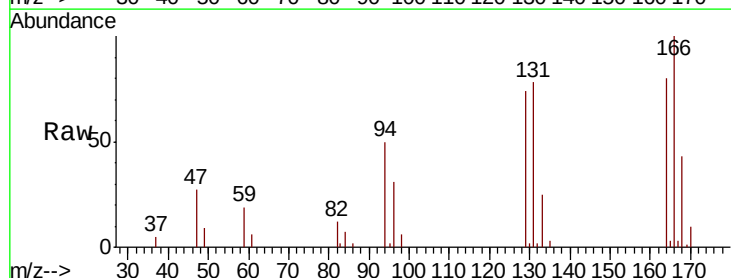
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

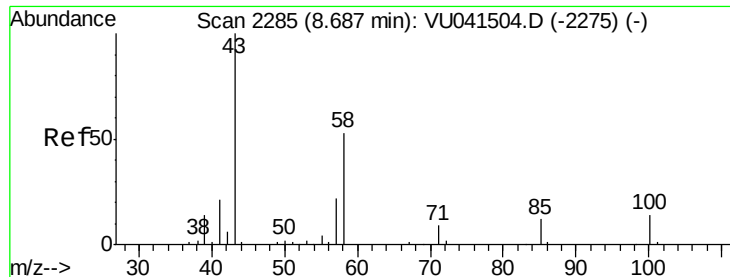
Tot Ion:	97	Resp:	12137
Ion	Ratio	Lower	Upper
97	100		
99	59.8	40.7	75.7
83	75.9	56.2	104.4
85	47.4	36.0	67.0



#47
 Tetrachloroethene
 Concen: 5.523 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Tgt Ion:	164	Resp:	15265
Ion	Ratio	Lower	Upper
164	100		
129	92.3	67.1	124.7
131	97.9	63.3	117.7
166	125.4	88.8	164.8





#48

2-Hexanone

Concen: 35.157 ug/L

RT: 8.69 min Scan# 2286

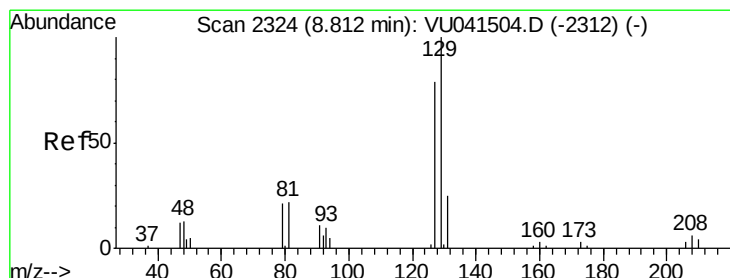
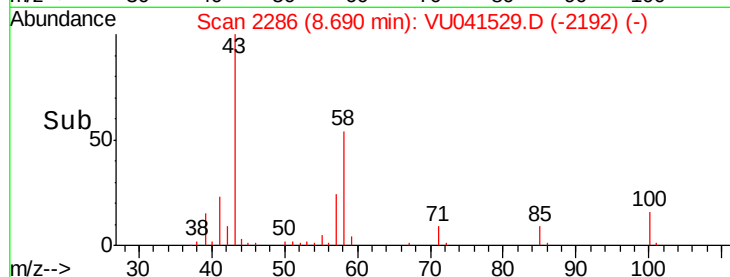
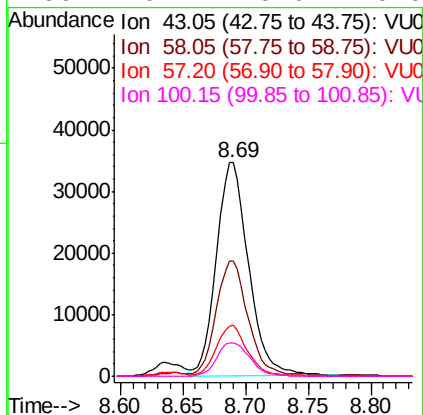
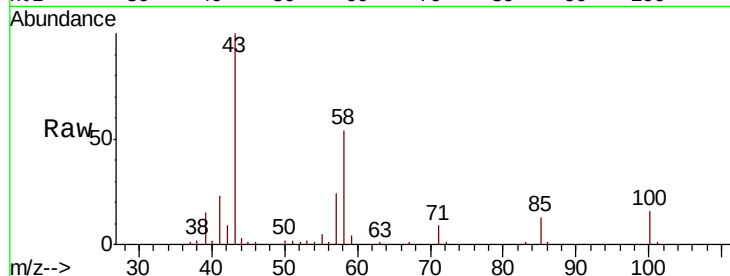
Delta R.T. 0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :
MSVOA_U
ClientSampleId :
VSTD00509

Tot Ion:	43	Resp:	61497
Ion	Ratio	Lower	Upper
43	100		
58	54.4	41.4	62.0
57	23.2	17.1	25.7
100	16.2	10.6	16.0#



#49

Dibromochloromethane

Concen: 5.134 ug/L

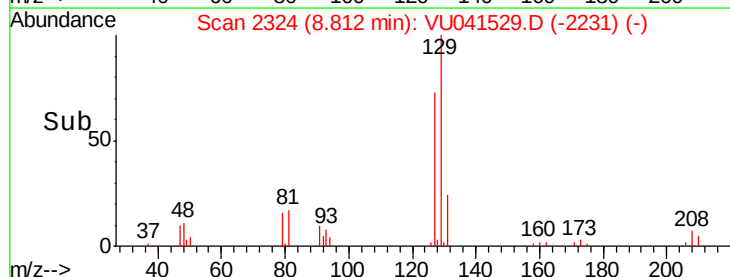
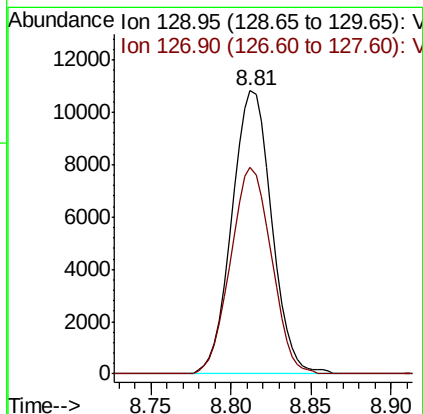
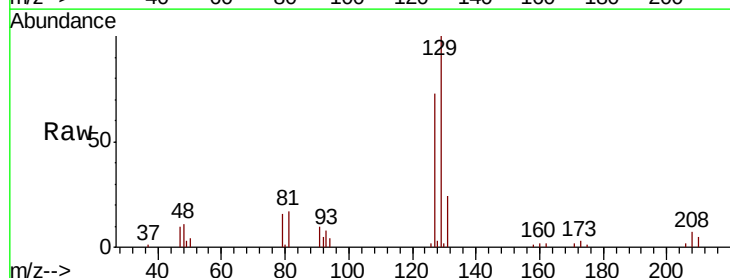
RT: 8.81 min Scan# 2324

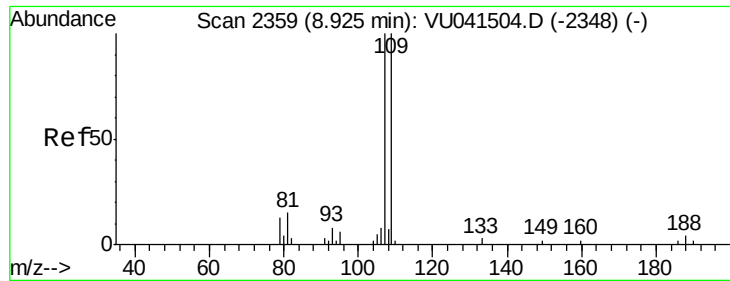
Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Tgt Ion:	129	Resp:	18327
Ion	Ratio	Lower	Upper
129	100		
127	73.2	52.4	97.2

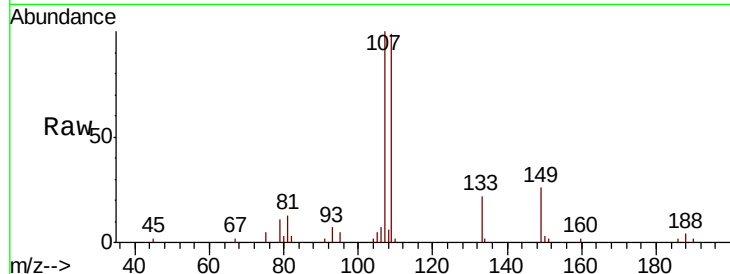




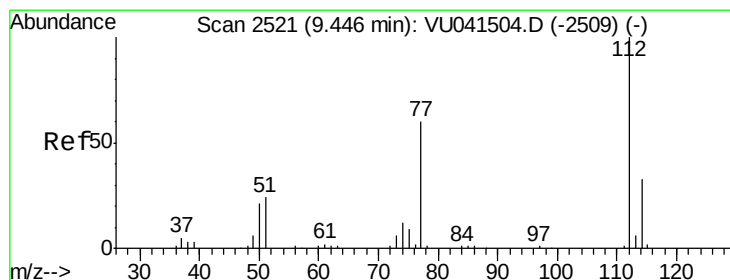
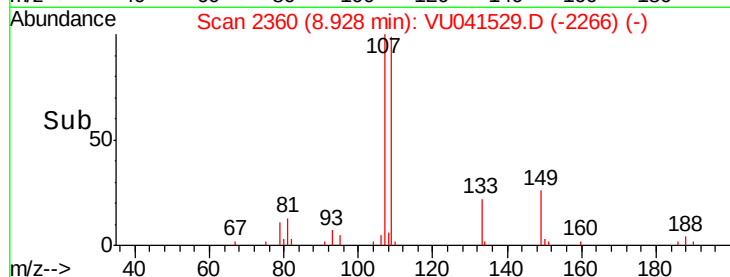
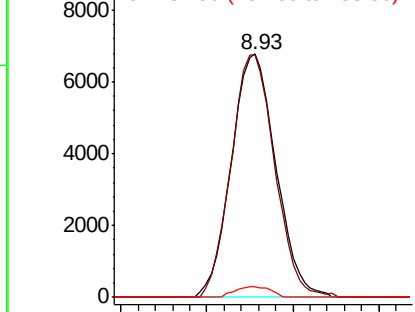
#50
 1,2-Dibromoethane
 Concen: 4.612 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

Tot Ion:107 Resp: 12191
 Ion Ratio Lower Upper
 107 100
 109 99.5 62.3 115.7
 188 4.4 4.2 6.4

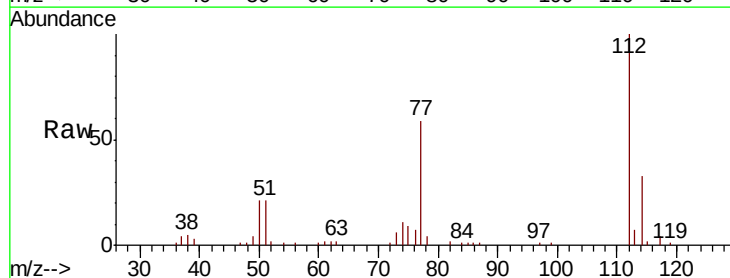


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

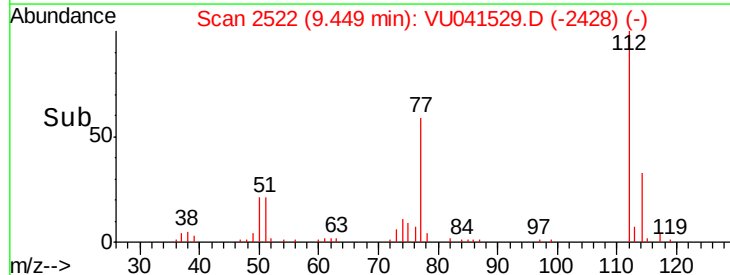
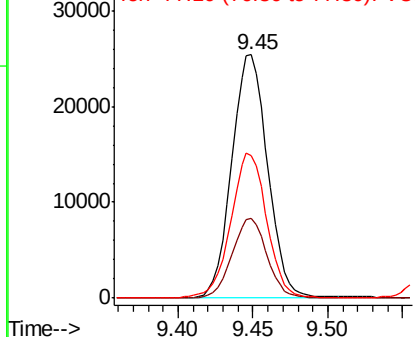


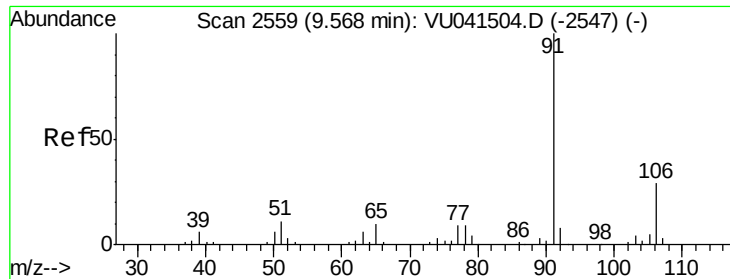
#51
 Chlorobenzene
 Concen: 4.891 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Tgt Ion:112 Resp: 42530
 Ion Ratio Lower Upper
 112 100
 114 32.7 22.7 42.1
 77 58.8 48.2 72.2



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: 4.751 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

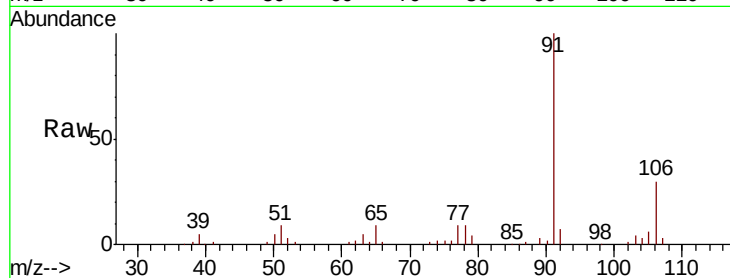
VSTD00509

Tot Ion: 91 Resp: 71039

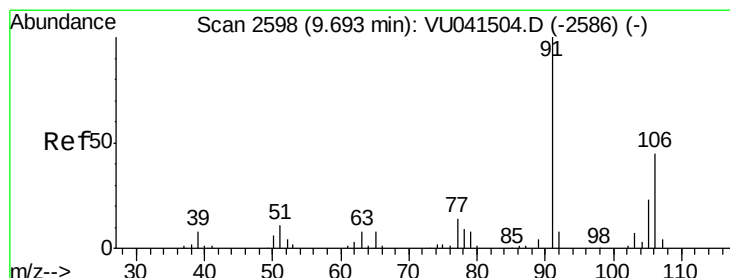
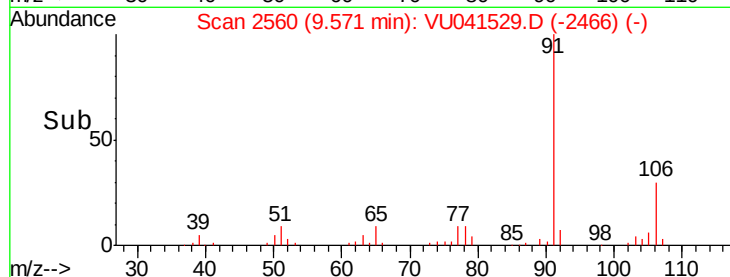
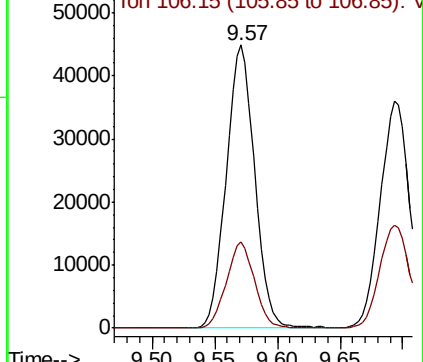
Ion Ratio Lower Upper

91 100

106 30.4 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): VU041529.D (-2547) (-)



#53

m,p-Xylene

Concen: 5.041 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU041529.D

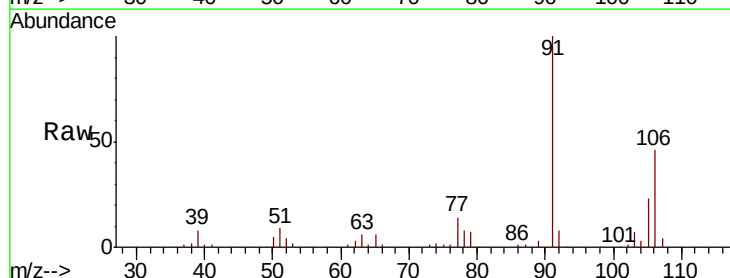
Acq: 10 Dec 2020 11:28

Tgt Ion: 106 Resp: 27364

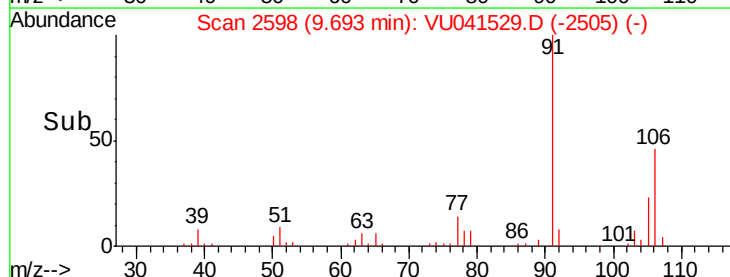
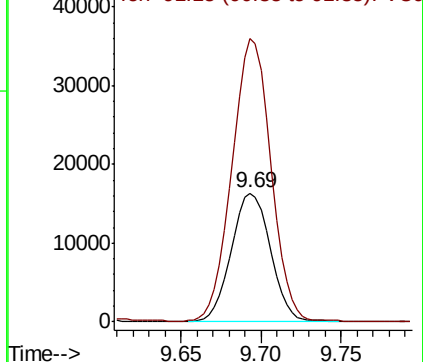
Ion Ratio Lower Upper

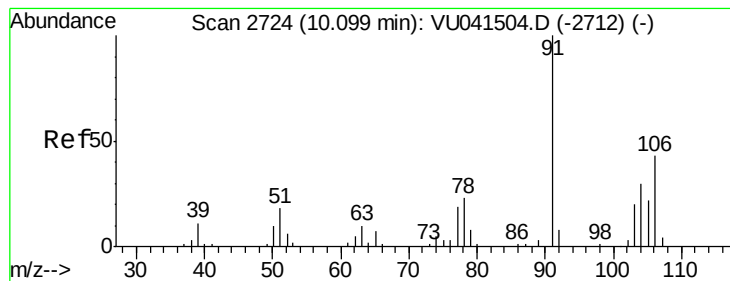
106 100

91 219.7 151.8 282.0



Abundance Ion 106.15 (105.85 to 106.85): VU041529.D (-2505) (-)





#54

o-Xylene

Concen: 4.854 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

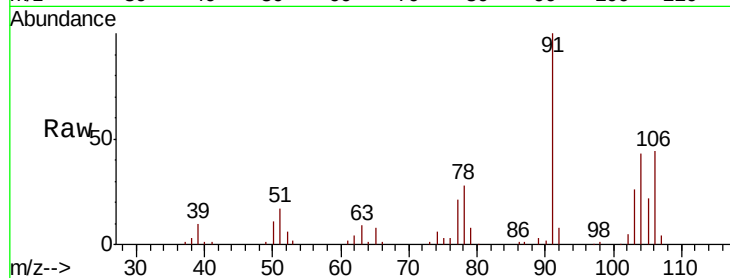
VSTD00509

Tot Ion:106 Resp: 25546

Ion Ratio Lower Upper

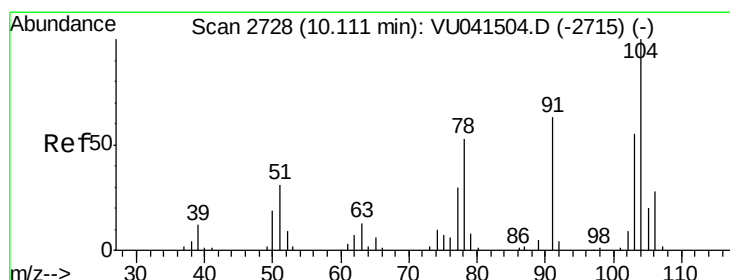
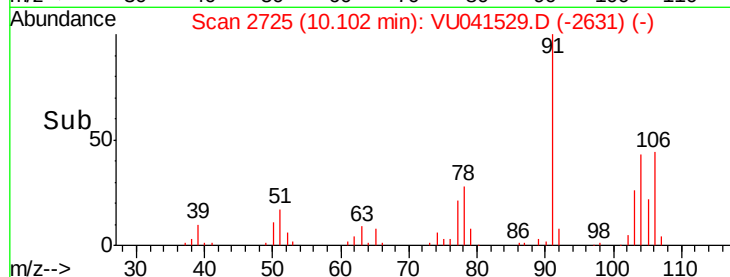
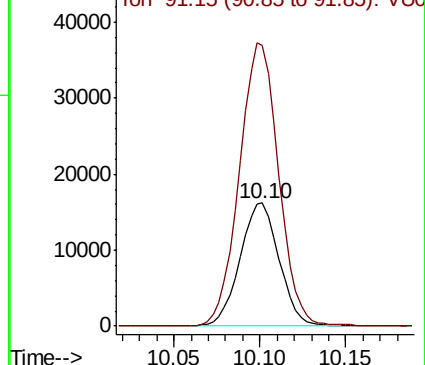
106 100

91 229.2 165.8 308.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.210 ug/L

RT: 10.11 min Scan# 2728

Delta R.T. -0.00 min

Lab File: VU041529.D

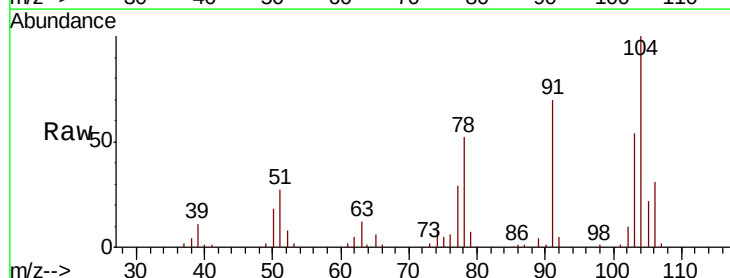
Acq: 10 Dec 2020 11:28

Tgt Ion:104 Resp: 46562

Ion Ratio Lower Upper

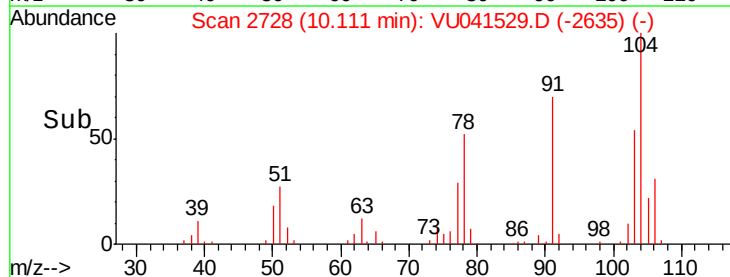
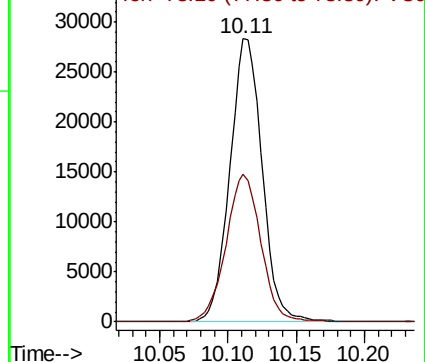
104 100

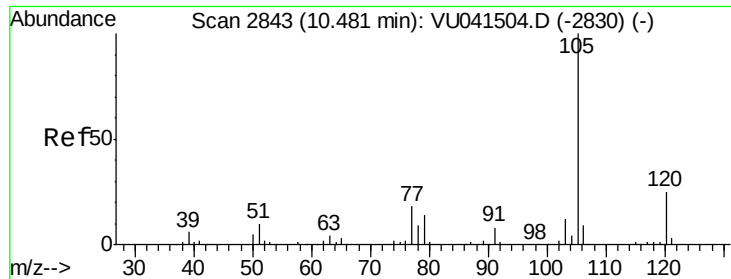
78 52.0 39.8 74.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.930 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

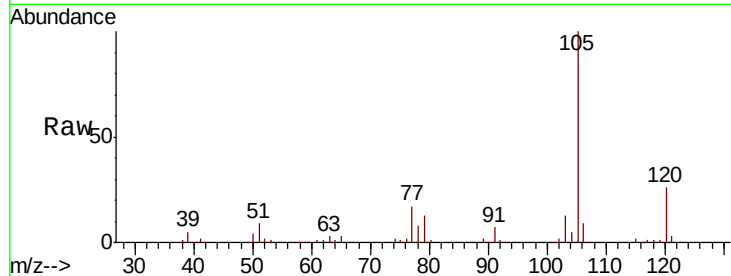
Tot Ion:105 Resp: 73245

Ion Ratio Lower Upper

105 100

120 26.3 20.0 30.0

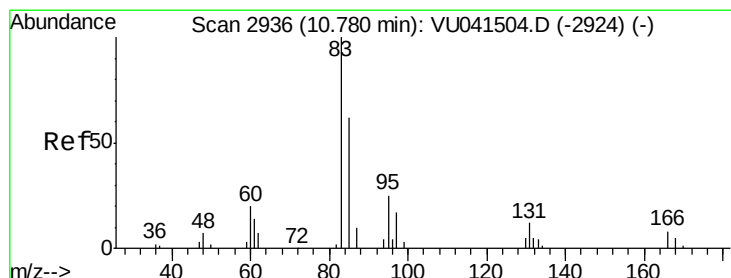
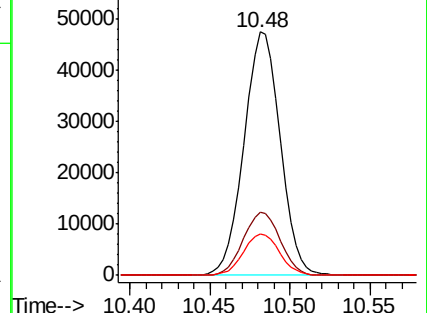
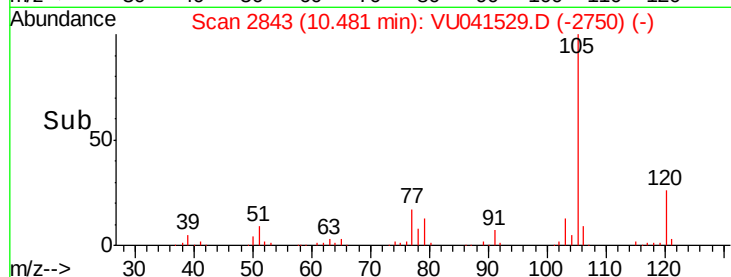
77 16.9 13.9 20.9



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: 4.122 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

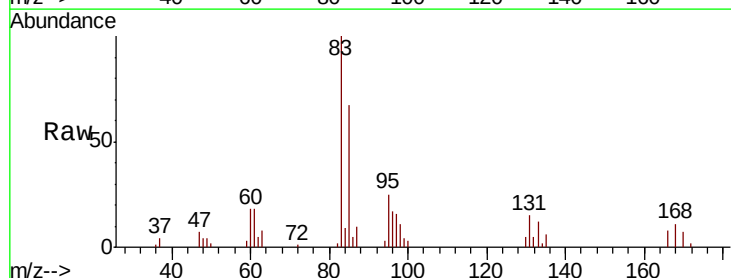
Tgt Ion: 83 Resp: 13267

Ion Ratio Lower Upper

83 100

85 66.5 45.2 84.0

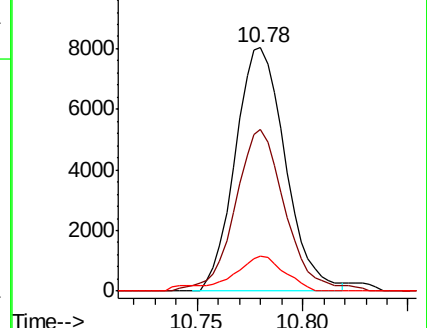
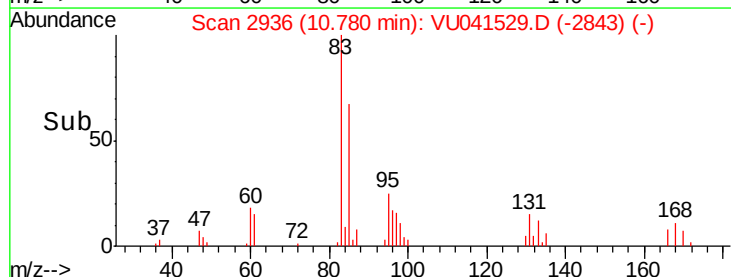
131 14.6 9.1 13.7#

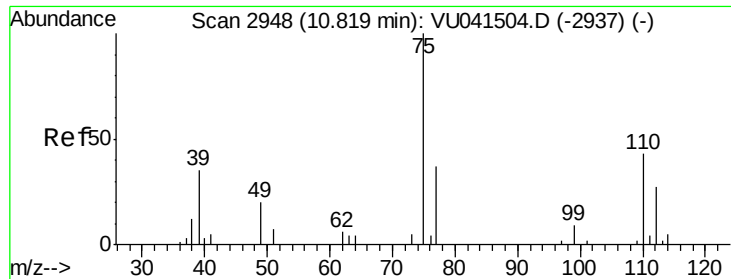


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

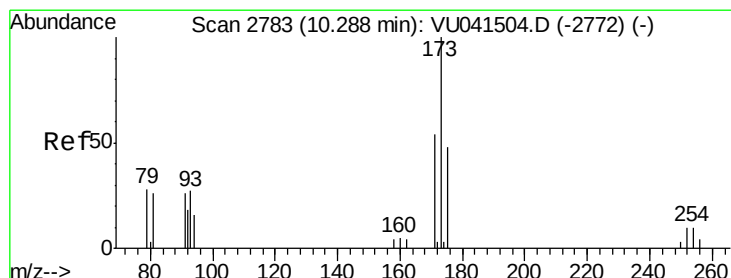
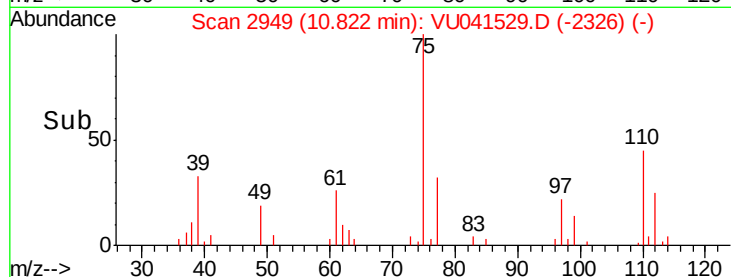
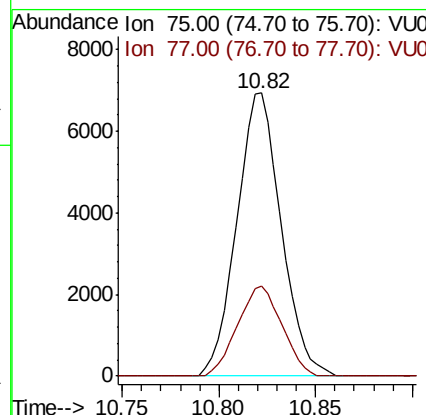
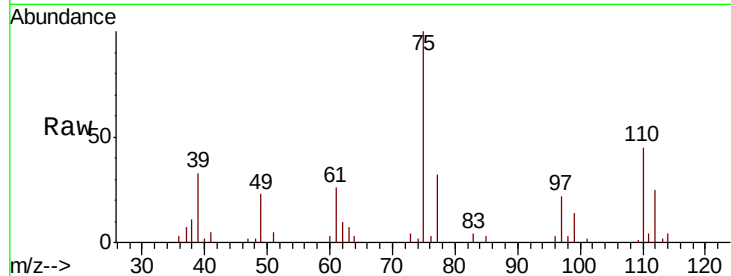




#59
 1,2,3-Trichloropropane
 Concen: 4.198 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. 0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

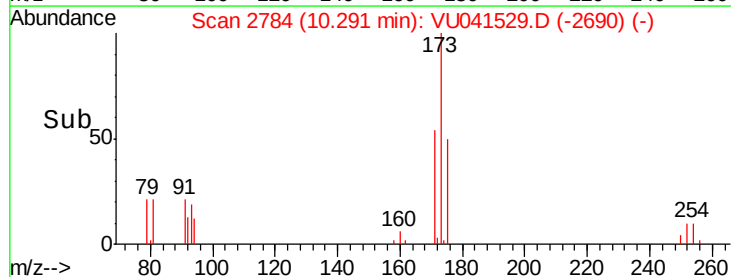
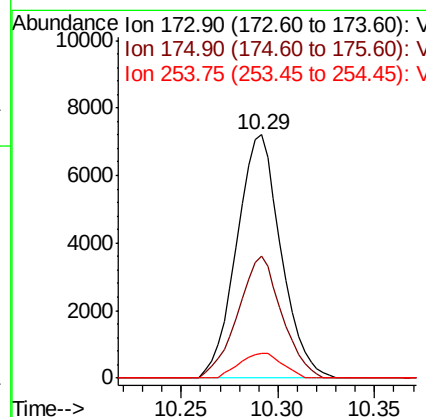
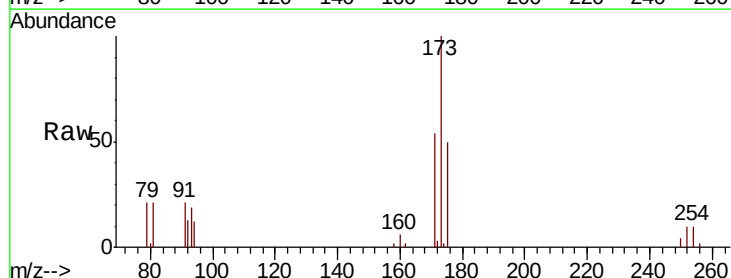
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

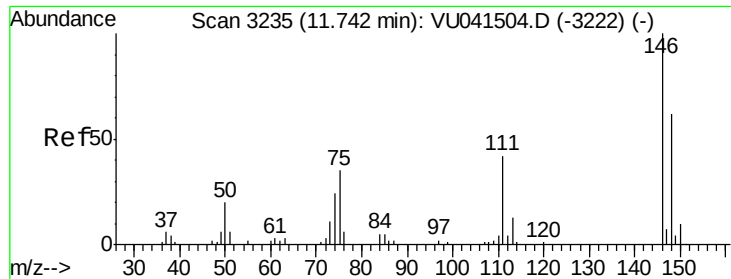
Tot Ion: 75 Resp: 11067
 Ion Ratio Lower Upper
 75 100
 77 31.7 26.3 39.5



#61
 Bromoform
 Concen: 5.141 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Tgt Ion: 173 Resp: 11462
 Ion Ratio Lower Upper
 173 100
 175 49.6 38.8 58.2
 254 9.8 7.6 11.4





#62

1,3-Dichlorobenzene

Concen: 5.002 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

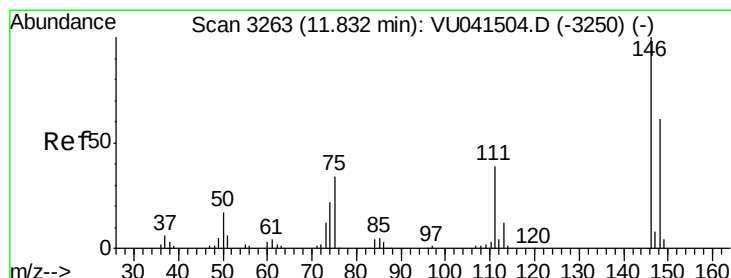
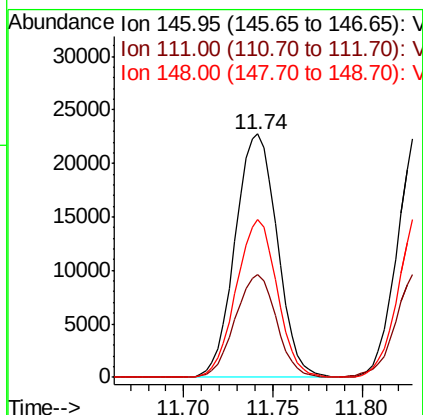
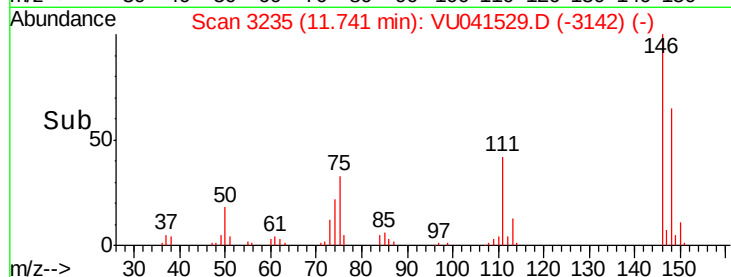
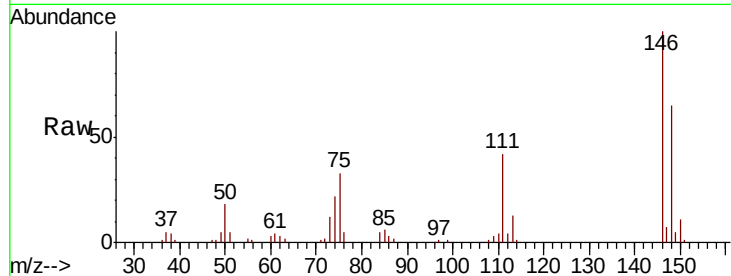
Tot Ion:146 Resp: 37403

Ion Ratio Lower Upper

146 100

111 42.0 30.2 56.0

148 64.8 44.0 81.6



#63

1,4-Dichlorobenzene

Concen: 4.876 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

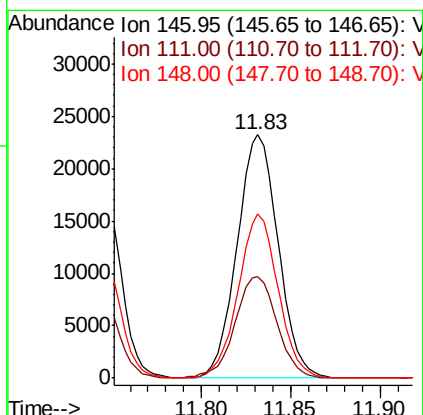
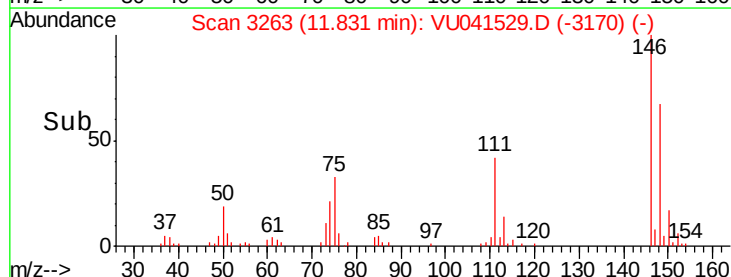
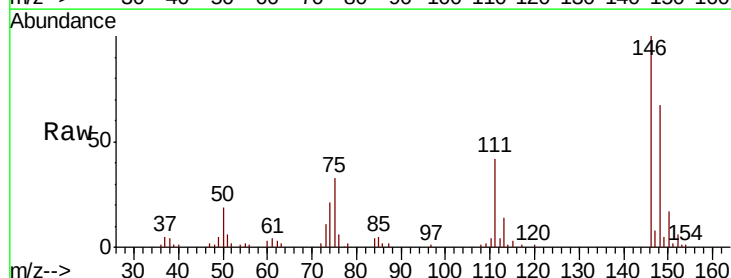
Tgt Ion:146 Resp: 37384

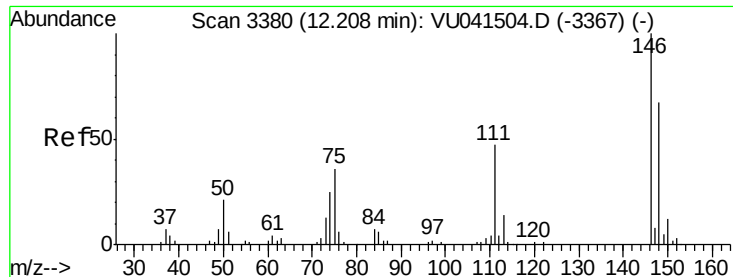
Ion Ratio Lower Upper

146 100

111 41.6 30.7 57.1

148 67.4 45.8 85.2





#65

1,2-Dichlorobenzene

Concen: 4.859 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

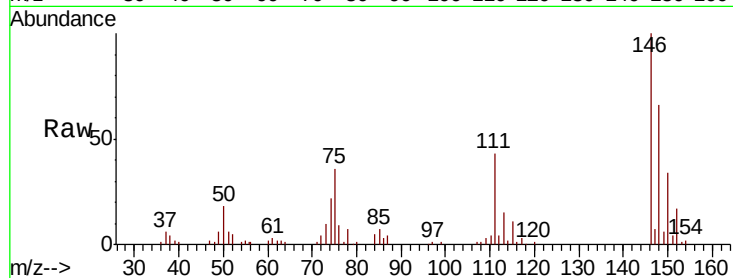
Tot Ion:146 Resp: 35979

Ion Ratio Lower Upper

146 100

111 42.5 36.0 54.0

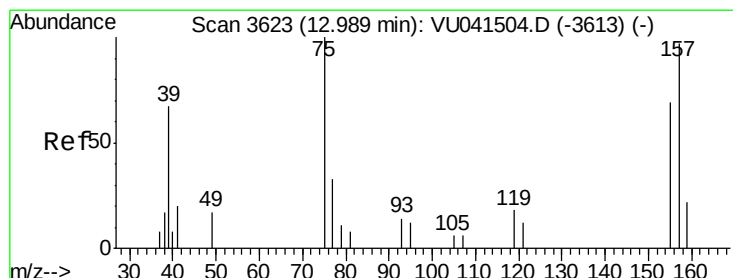
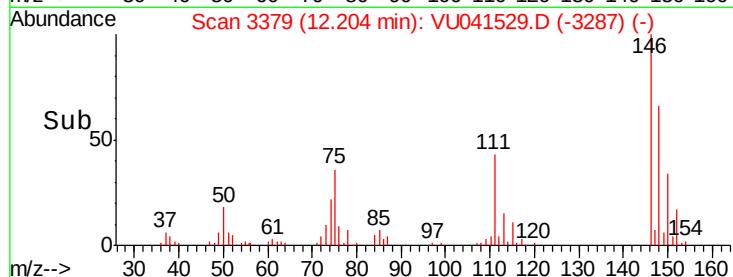
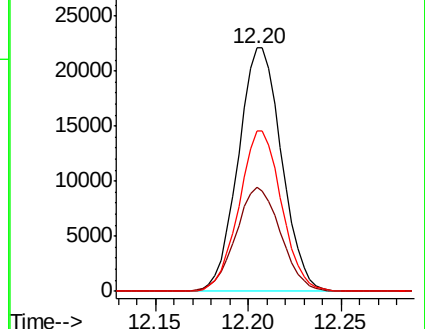
148 65.9 49.0 73.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.463 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

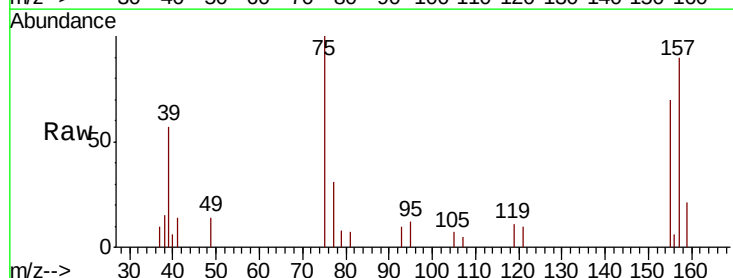
Tgt Ion: 75 Resp: 3237

Ion Ratio Lower Upper

75 100

155 69.8 58.0 87.0

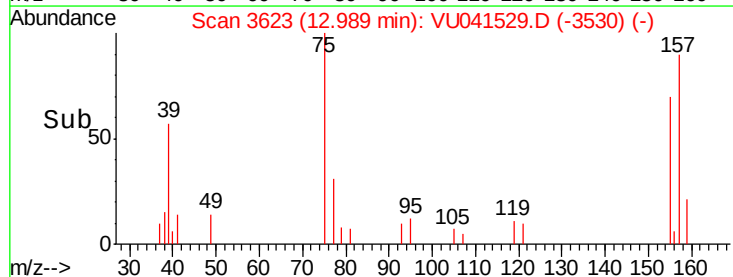
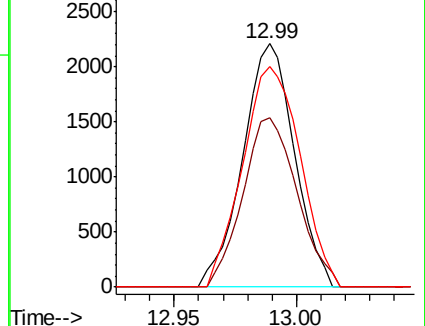
157 90.4 77.1 115.7

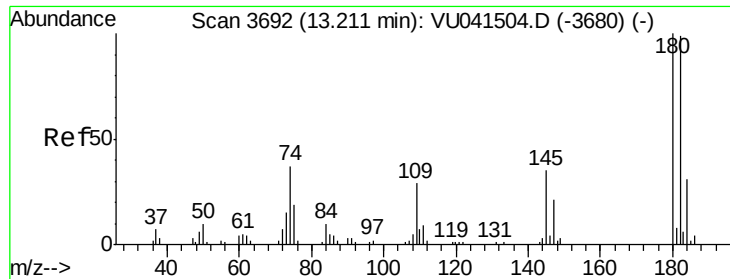


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

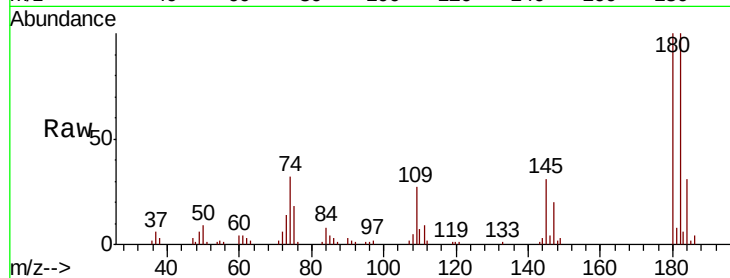




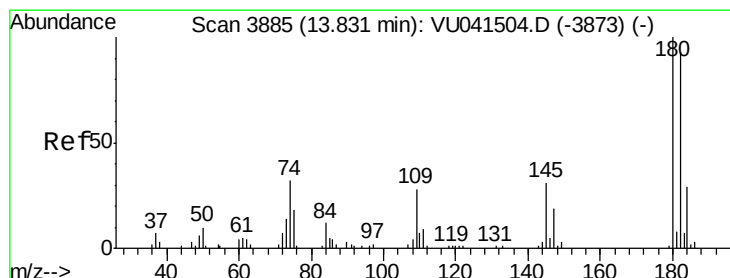
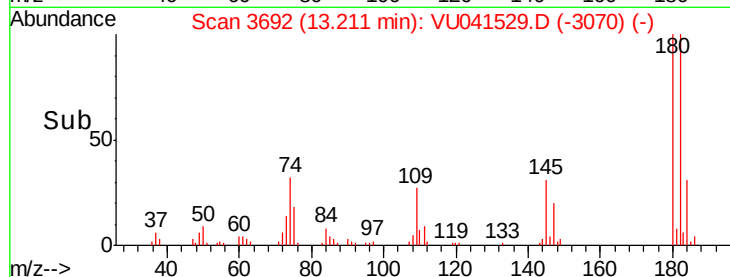
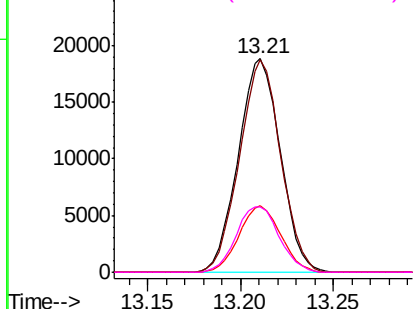
#67
 1,3,5-Trichlorobenzene
 Concen: 4.957 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00509

Tot Ion:180 Resp: 29622
 Ion Ratio Lower Upper
 180 100
 182 97.4 76.3 114.5
 184 30.8 23.8 35.6
 145 31.4 25.1 37.7

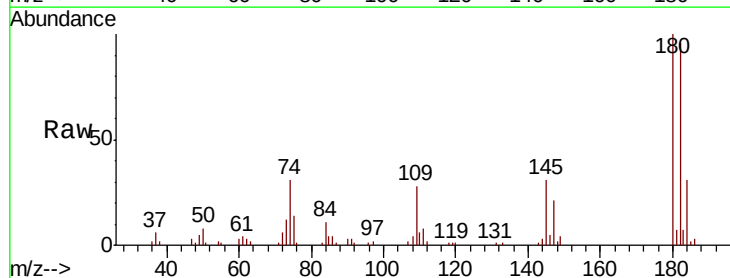


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

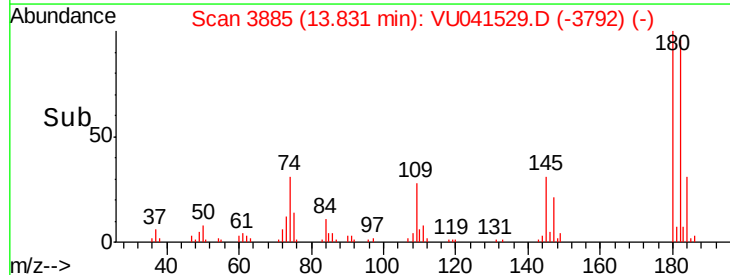
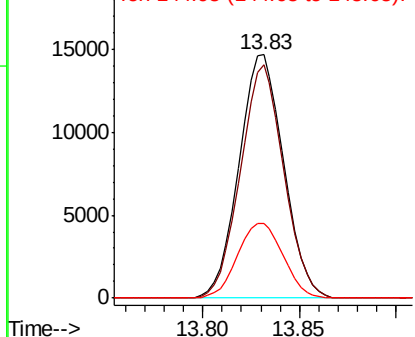


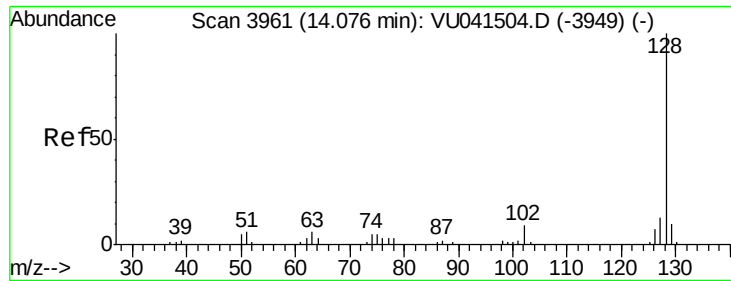
#68
 1,2,4-trichlorobenzene
 Concen: 4.923 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU041529.D
 Acq: 10 Dec 2020 11:28

Tgt Ion:180 Resp: 23547
 Ion Ratio Lower Upper
 180 100
 182 93.2 77.8 116.8
 145 31.4 26.4 39.6



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.244 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00509

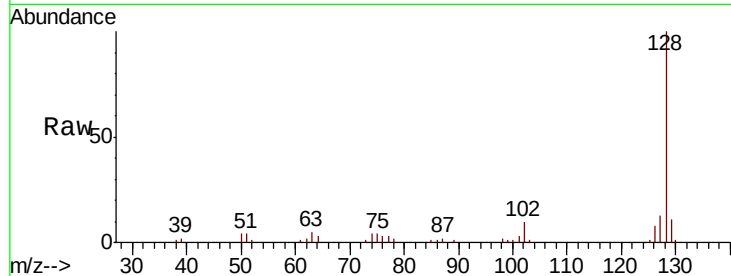
Tot Ion:128 Resp: 31898

Ion Ratio Lower Upper

128 100

129 11.8 8.6 12.8

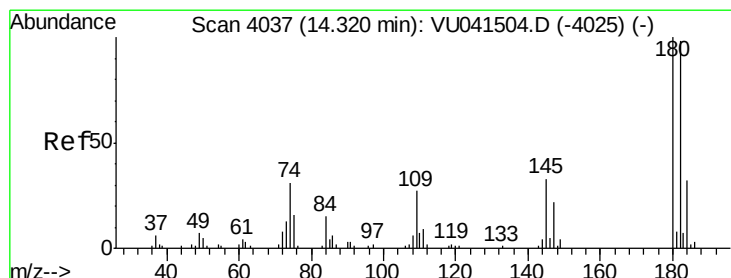
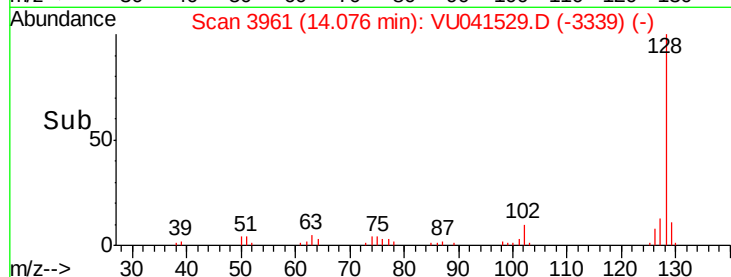
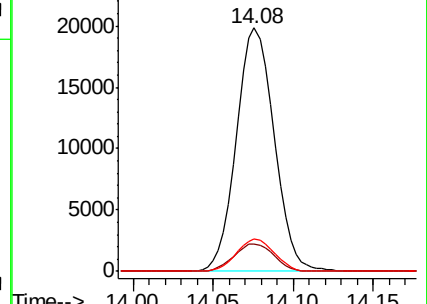
127 13.3 10.9 16.3



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: 5.217 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU041529.D

Acq: 10 Dec 2020 11:28

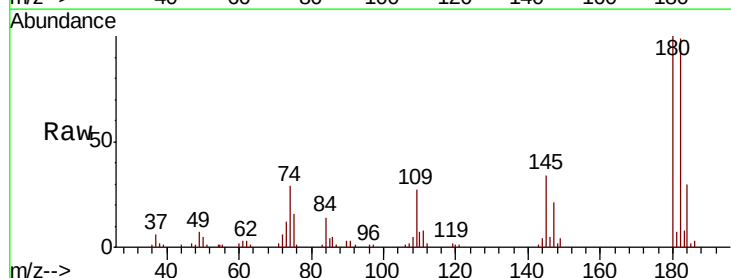
Tgt Ion:180 Resp: 22086

Ion Ratio Lower Upper

180 100

182 97.9 79.1 118.7

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

