

Data File : VU032157.D
Acq On : 20 May 2019 16:06
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00599

Quant Time: May 21 06:44:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR051619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue May 21 06:39:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	363623	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	369381	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	175077	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	109472	3.57	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.40%
7) Chloroethane-d5	1.68	69	98839	3.78	ug/L	0.01
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.60%
11) 1,1-Dichloroethene-d2	2.27	63	192573	3.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.00%
20) 2-Butanone-d5	4.20	46	292550	48.65	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.30%
24) Chloroform-d	4.64	84	244951	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
26) 1,2-Dichloroethane-d4	5.31	65	122531	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
32) Benzene-d6	5.33	84	475546	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.40%
36) 1,2-Dichloropropane-d6	6.33	67	141845	4.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.20%
41) Toluene-d8	7.56	98	426539	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.00%
43) trans-1,3-Dichloropropene-	7.85	79	52179	4.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.00%
46) 2-Hexanone-d5	8.31	63	261685	48.88	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.76%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	127716	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	165808	4.47	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	89614	4.924	ug/L 99
3) Chloromethane	1.32	50	72920	4.175	ug/L 97
5) Vinyl chloride	1.40	62	86103	4.692	ug/L 99
6) Bromomethane	1.63	94	49700	4.699	ug/L 99
8) Chloroethane	1.69	64	48921	4.299	ug/L 98
9) Trichlorofluoromethane	1.88	101	116643	5.181	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	73960	4.958	ug/L 94
12) 1,1-Dichloroethene	2.28	96	73651	5.044	ug/L 75
13) Acetone	2.34	43	90206	45.693	ug/L 99
14) Carbon disulfide	2.47	76	214438	4.604	ug/L 98
15) Methyl Acetate	2.62	43	24646	4.354	ug/L 97
16) Methylene chloride	2.69	84	80482	4.618	ug/L 97
17) Methyl tert-butyl Ether	3.00	73	166918	4.862	ug/L 97
18) trans-1,2-Dichloroethene	2.97	96	75990	4.862	ug/L 99
19) 1,1-Dichloroethane	3.44	63	121754	4.910	ug/L 99
21) 2-Butanone	4.29	43	138648	48.930	ug/L 97
22) cis-1,2-Dichloroethene	4.22	96	76672	4.986	ug/L 87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	35973	5.452	ug/L	89
25) Chloroform	4.67	83	135510	5.111	ug/L	96
27) 1,2-Dichloroethane	5.40	62	78787	5.146	ug/L	99
29) 1,1,1-Trichloroethane	4.91	97	109308	5.072	ug/L	96
30) Cyclohexane	4.98	56	87329	4.407	ug/L	95
31) Carbon tetrachloride	5.13	117	98046	5.351	ug/L	99
33) Benzene	5.38	78	277936	4.900	ug/L	100
34) Trichloroethene	6.18	95	76774	4.990	ug/L	97
35) Methylcyclohexane	6.41	83	102081	4.608	ug/L	99
37) 1,2-Dichloropropane	6.43	63	66537	4.798	ug/L	99
38) Bromodichloromethane	6.75	83	90526	5.103	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	95133	4.961	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	306485	47.674	ug/L	98
42) Toluene	7.63	91	310939	5.234	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	74148	4.973	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	53568	5.229	ug/L	97
47) Tetrachloroethene	8.22	164	63363	5.509	ug/L	94
48) 2-Hexanone	8.36	43	252043	50.545	ug/L	97
49) Dibromochloromethane	8.47	129	61974	5.249	ug/L	99
50) 1,2-Dibromoethane	8.59	107	53803	5.481	ug/L	92
51) Chlorobenzene	9.12	112	195011	5.198	ug/L	92
52) Ethylbenzene	9.25	91	294410	4.940	ug/L	98
53) m,p-Xylene	9.37	106	117910	5.209	ug/L	95
54) o-Xylene	9.77	106	113456	5.200	ug/L	92
55) Styrene	9.79	104	193742	5.237	ug/L	97
56) Isopropylbenzene	10.16	105	292444	5.244	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	64392	5.038	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	43372	4.924	ug/L	96
61) Bromoform	9.95	173	37179	5.533	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	140868	5.050	ug/L	95
63) 1,4-Dichlorobenzene	11.50	146	144161	4.966	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	145104	5.127	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.65	75	9082	4.917	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	110150	5.305	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	80310	5.595	ug/L	97
69) Naphthalene	13.74	128	108189	4.846	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	76945	5.281	ug/L	99

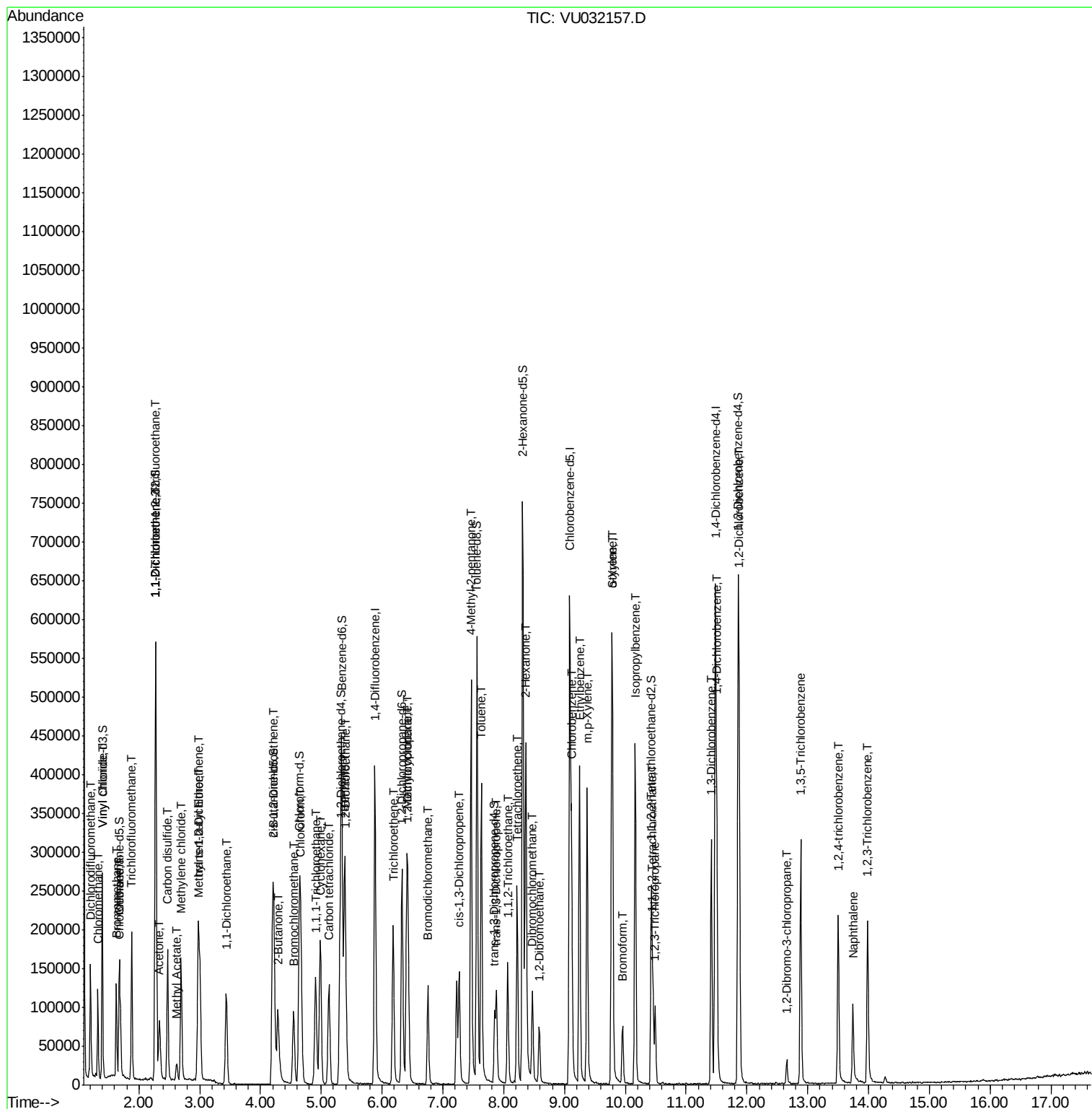
(#) = qualifier out of range (m) = manual integration (+) = signals summed

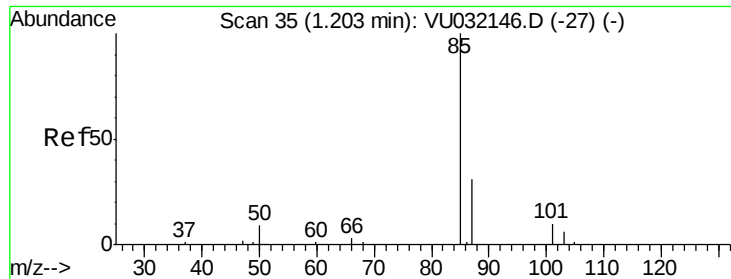
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#2

Dichlorodifluoromethane

Concen: 4.924 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

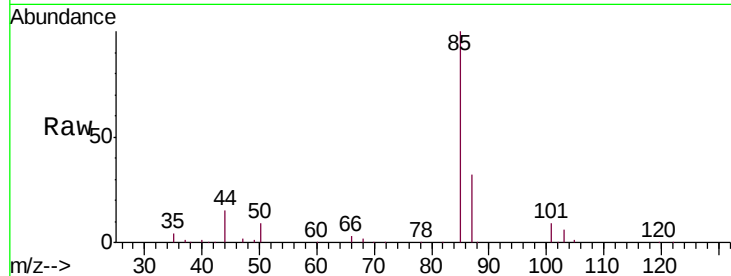
VSTD00599

Tgt Ion: 85 Resp: 89614

Ion Ratio Lower Upper

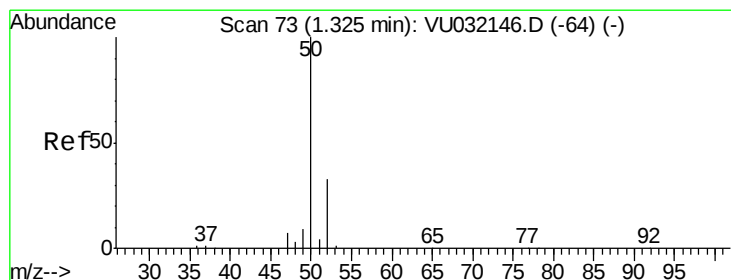
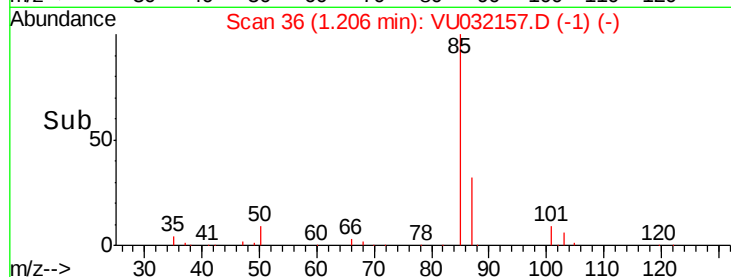
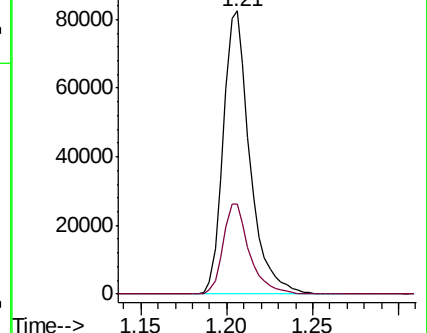
85 100

87 31.6 24.8 37.2



Abundance Ion 85.00 (84.70 to 85.70): VU032157.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU032157.D (-1) (-)



#3

Chloromethane

Concen: 4.175 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032157.D

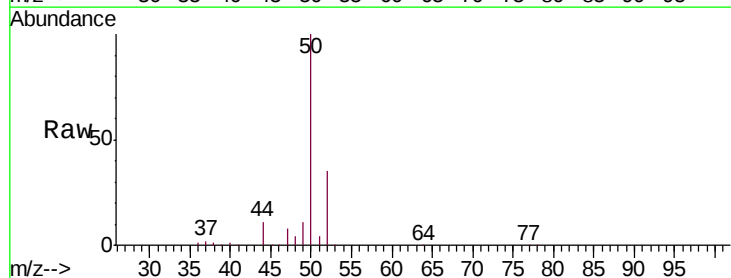
Acq: 20 May 2019 16:06

Tgt Ion: 50 Resp: 72920

Ion Ratio Lower Upper

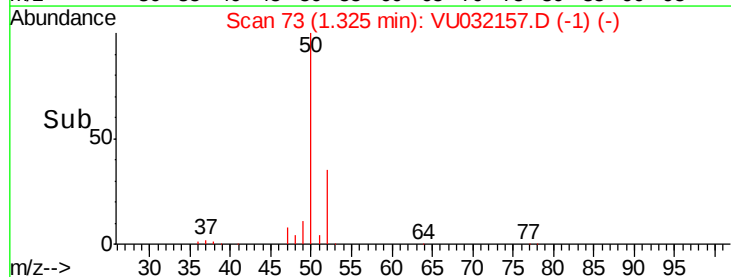
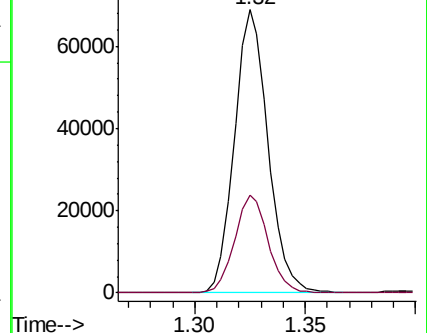
50 100

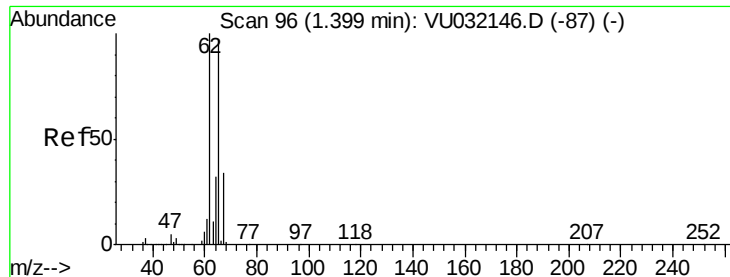
52 34.6 23.2 43.0



Abundance Ion 50.05 (49.75 to 50.75): VU032157.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU032157.D (-1) (-)





#5

Vinyl chloride

Concen: 4.692 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

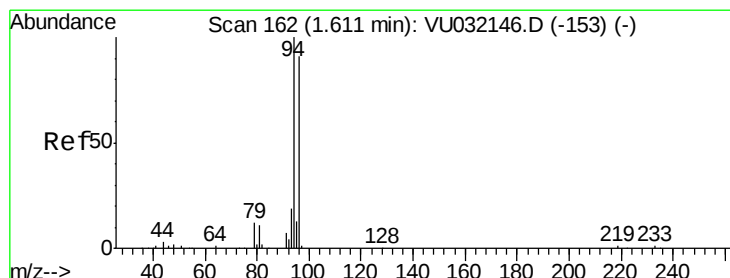
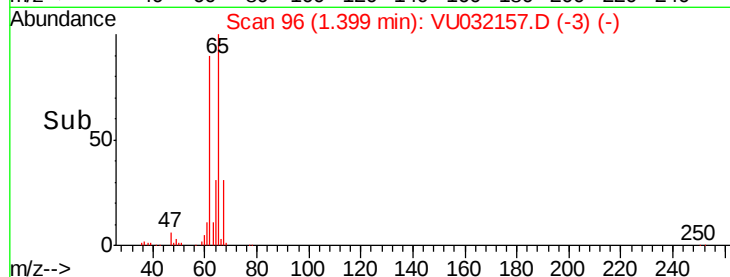
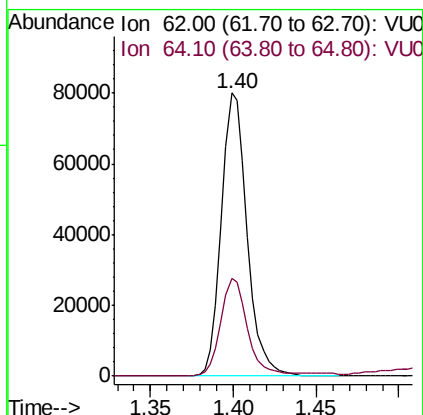
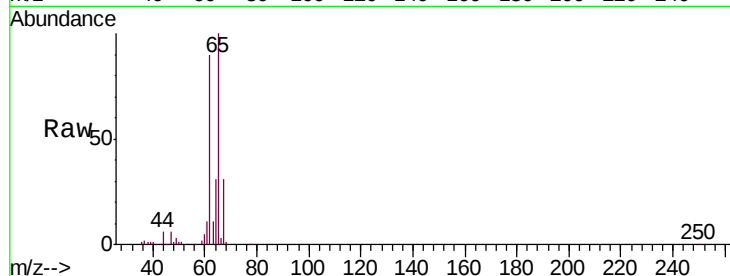
VSTD00599

Tgt Ion: 62 Resp: 86103

Ion Ratio Lower Upper

62 100

64 34.7 24.8 46.1



#6

Bromomethane

Concen: 4.699 ug/L

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU032157.D

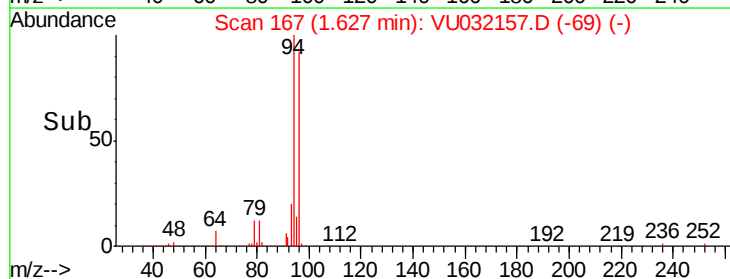
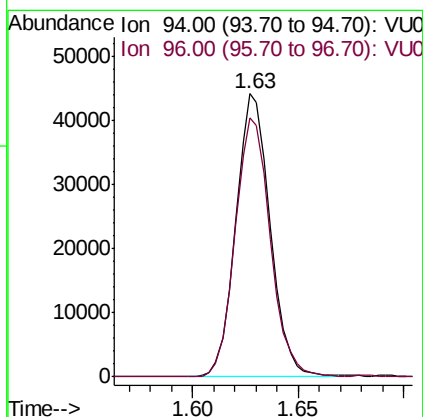
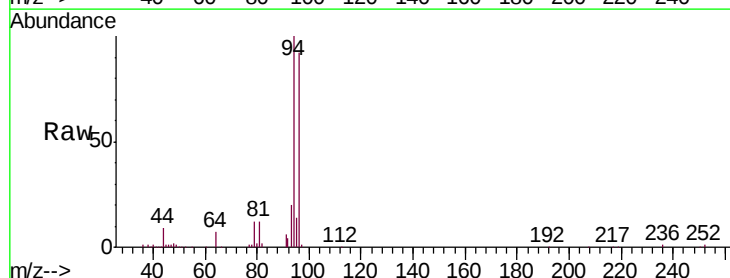
Acq: 20 May 2019 16:06

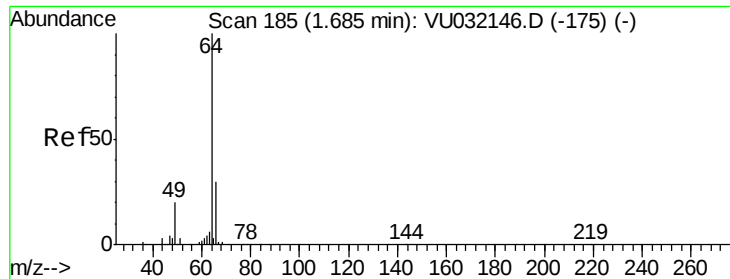
Tgt Ion: 94 Resp: 49700

Ion Ratio Lower Upper

94 100

96 91.6 63.3 117.7

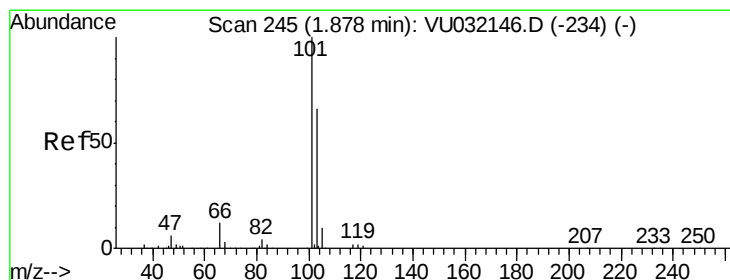
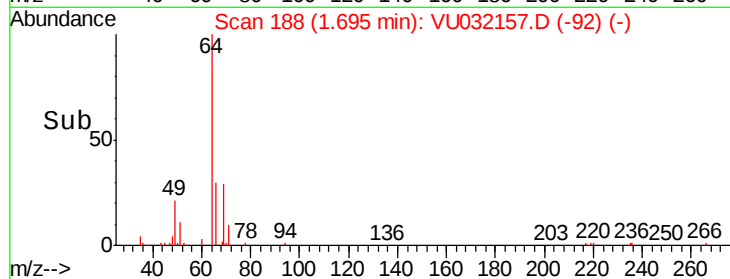
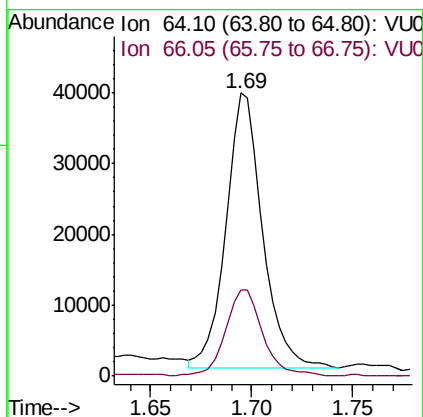
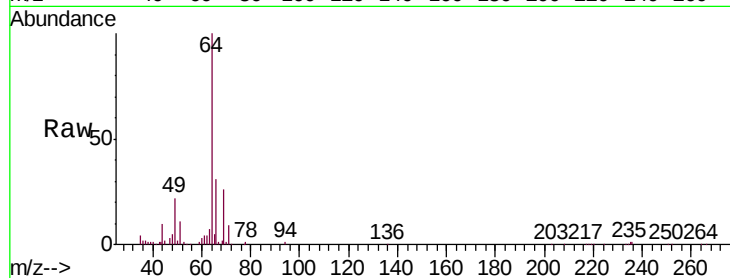




#8
Chloroethane
Concen: 4.299 ug/L
RT: 1.69 min Scan# 188
Delta R.T. 0.01 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

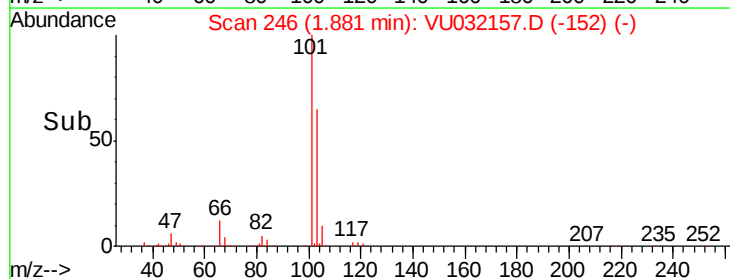
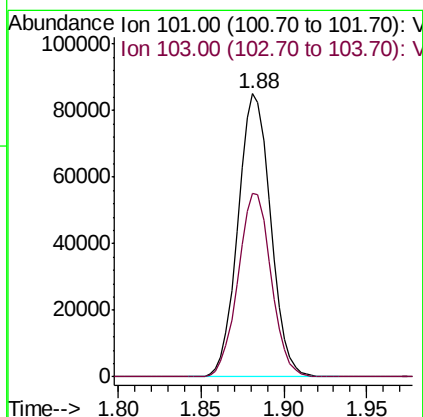
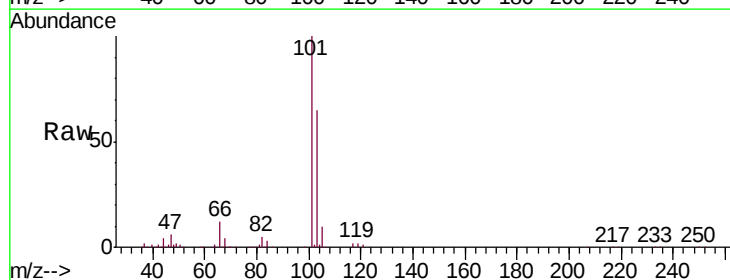
Instrument :
MSVOA_U
ClientSampleId :
VSTD00599

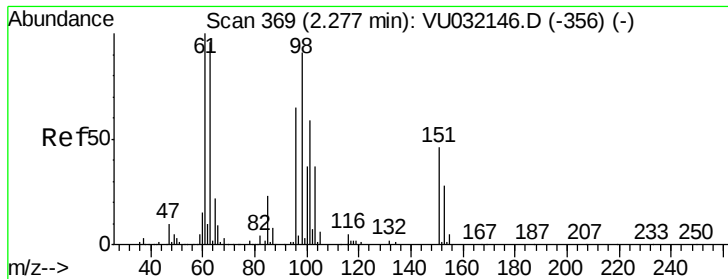
Tgt Ion: 64 Resp: 48921
Ion Ratio Lower Upper
64 100
66 30.6 22.0 41.0



#9
Trichlorofluoromethane
Concen: 5.181 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Tgt Ion: 101 Resp: 116643
Ion Ratio Lower Upper
101 100
103 65.5 51.4 77.0





#10

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

Concen: 4.958 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.01 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampled :

VSTD00599

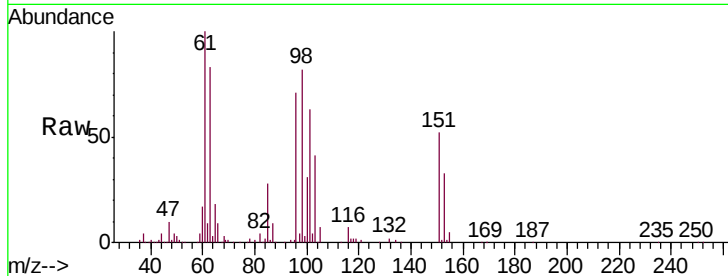
Tgt Ion:101 Resp: 73960

Ion Ratio Lower Upper

101 100

85 42.3 33.8 50.8

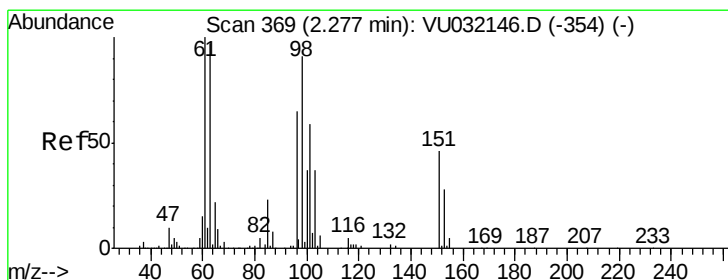
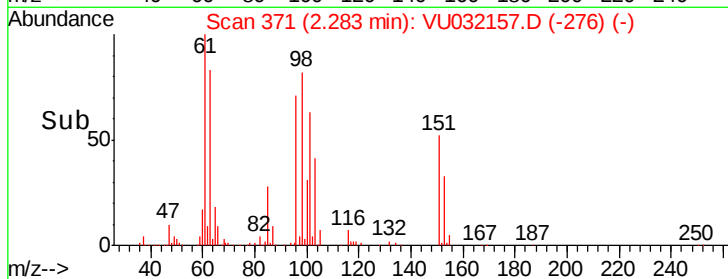
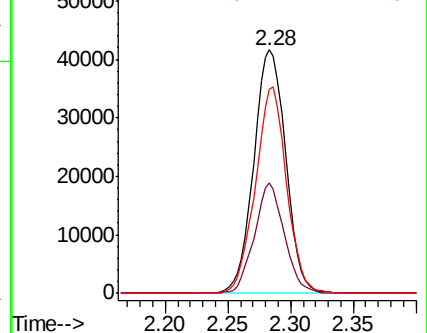
151 82.5 59.4 89.2



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: 5.044 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

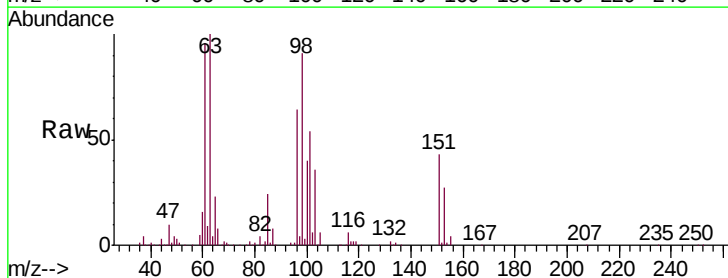
Tgt Ion: 96 Resp: 73651

Ion Ratio Lower Upper

96 100

61 149.9 111.7 207.5

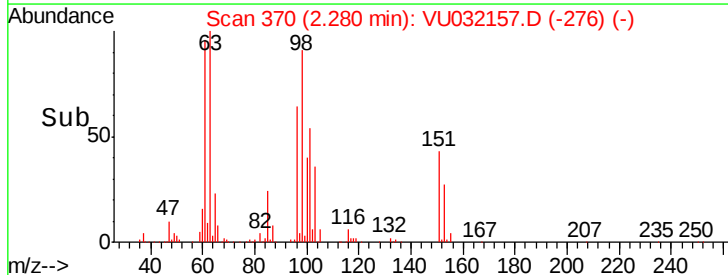
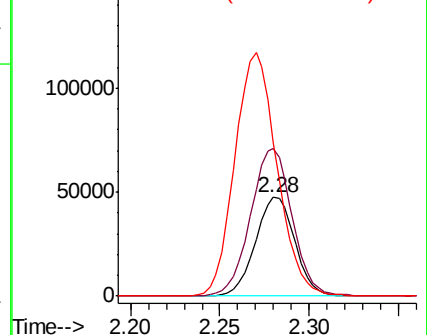
63 156.6 152.2 282.6

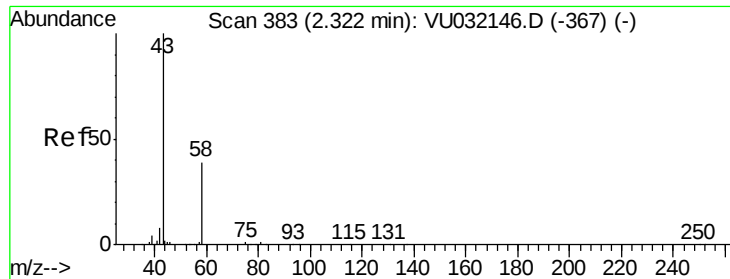


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 45.693 ug/L

RT: 2.34 min Scan# 388

Delta R.T. 0.02 min

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Acq: 20 May 2019 16:06

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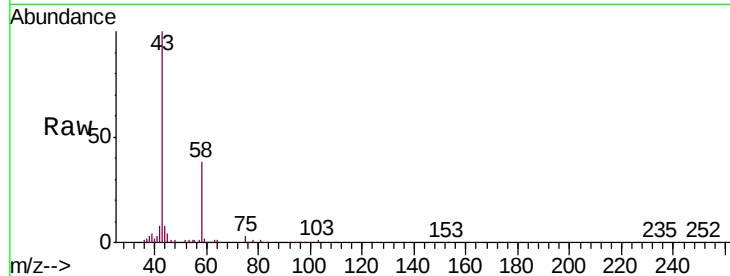
VSTD00599

Tgt Ion: 43 Resp: 90206

Ion Ratio Lower Upper

43 100

58 40.3 0.0 78.8



Abundance Ion 43.05 (42.75 to 43.75): VU032146.D (-367) (-)

Ion 58.05 (57.75 to 58.75): VU032146.D (-367) (-)

2.34

40000

30000

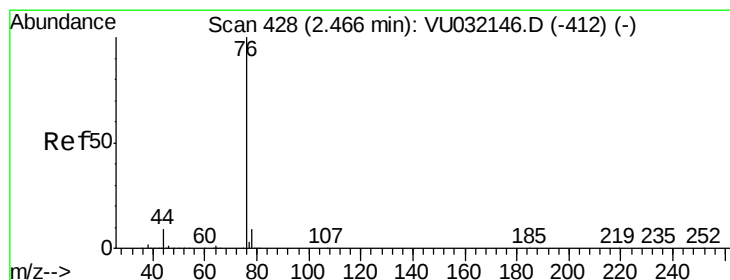
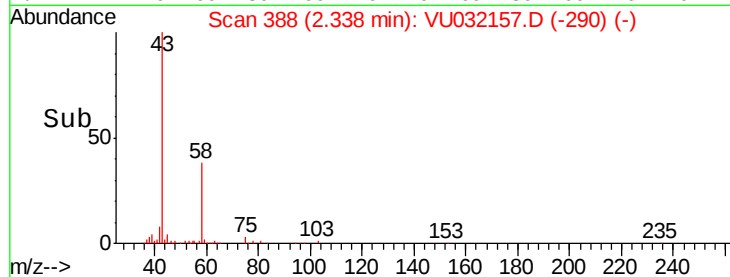
20000

10000

0

Time-->

2.25 2.30 2.35 2.40 2.45



#14

Carbon disulfide

Concen: 4.604 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.01 min

Lab File: VU032157.D

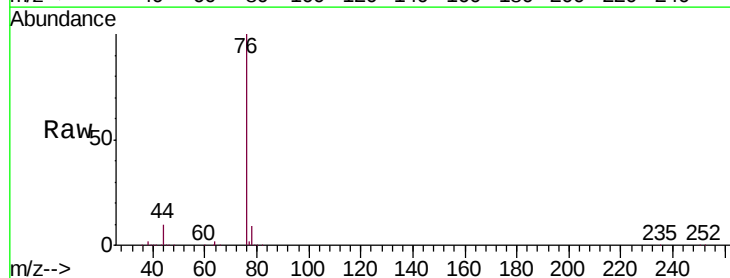
Acq: 20 May 2019 16:06

Tgt Ion: 76 Resp: 214438

Ion Ratio Lower Upper

76 100

78 9.1 7.8 11.6



Abundance Ion 76.05 (75.75 to 76.75): VU032146.D (-412) (-)

Ion 78.00 (77.70 to 78.70): VU032146.D (-412) (-)

2.47

150000

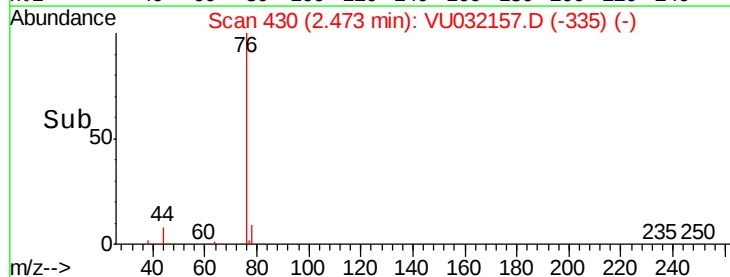
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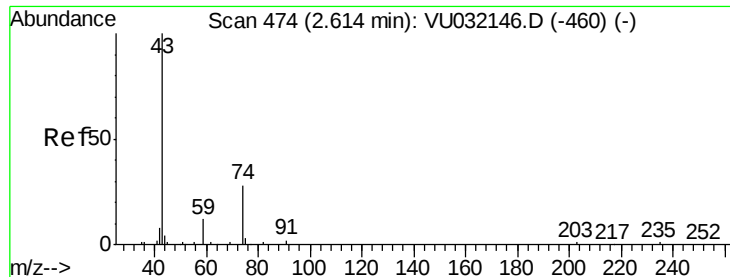
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Time-->

2.40 2.45 2.50 2.55

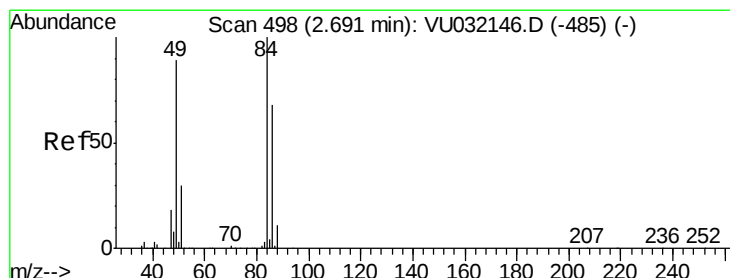
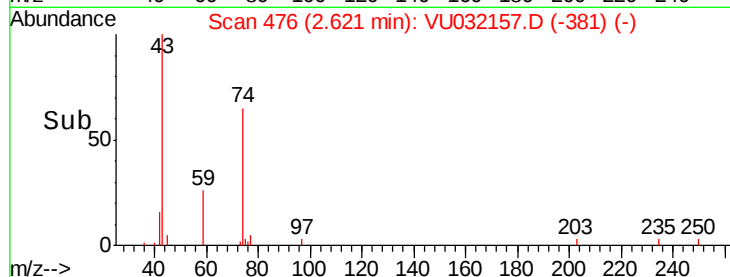
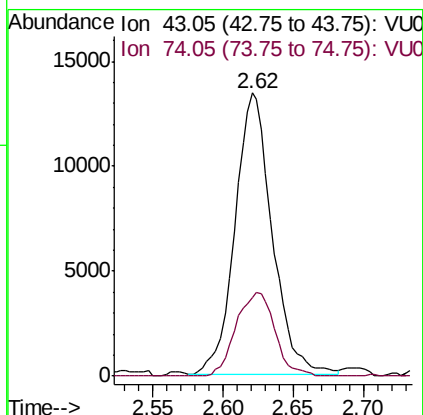
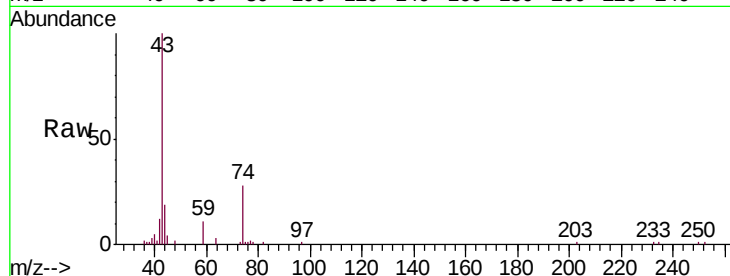




#15
Methyl Acetate
Concen: 4.354 ug/L
RT: 2.62 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

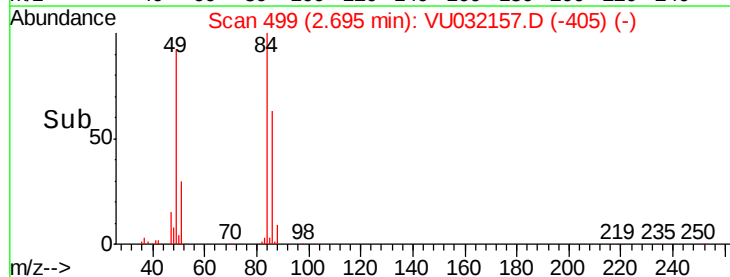
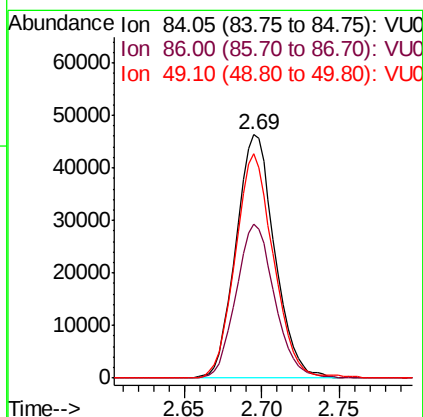
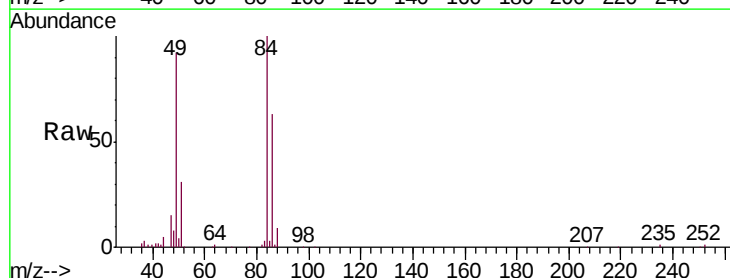
Instrument :
MSVOA_U
ClientSampleId :
VSTD00599

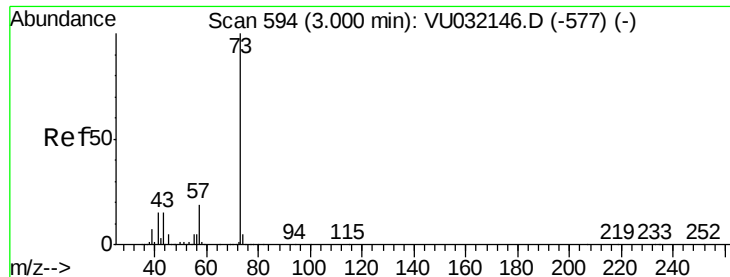
Tgt Ion: 43 Resp: 24646
Ion Ratio Lower Upper
43 100
74 31.1 26.4 39.6



#16
Methylene chloride
Concen: 4.618 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Tgt Ion: 84 Resp: 80482
Ion Ratio Lower Upper
84 100
86 63.0 43.1 80.1
49 92.3 67.7 125.7





#17

Methyl tert-butyl Ether

Concen: 4.862 ug/L

RT: 3.00 min Scan# 594

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00599

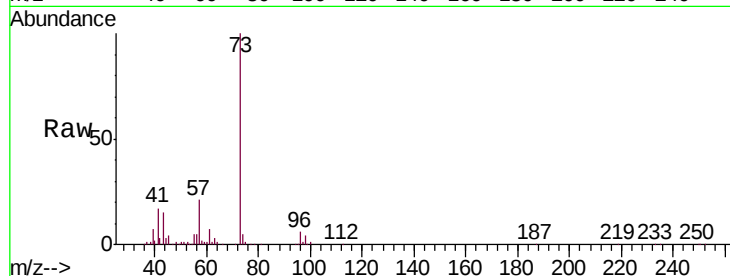
Tgt Ion: 73 Resp: 166918

Ion Ratio Lower Upper

73 100

43 15.4 13.0 19.6

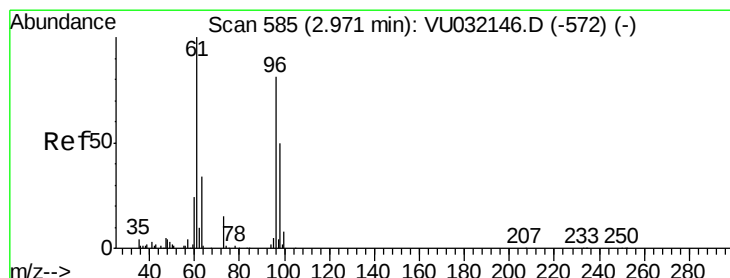
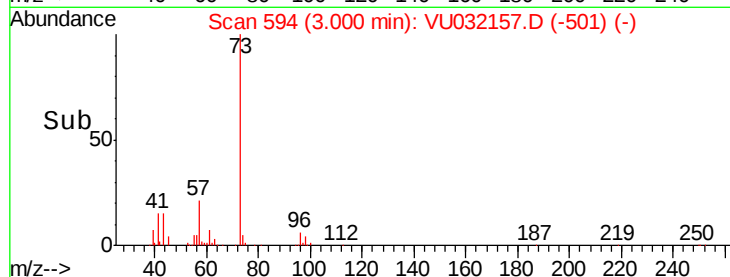
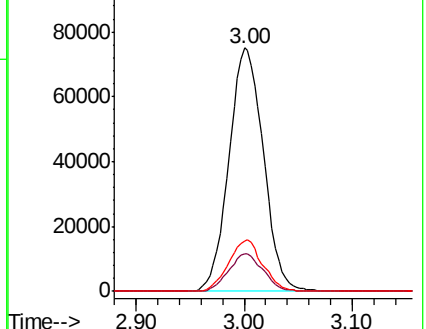
57 20.9 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VU032146.D (-577) (-)

Ion 43.05 (42.75 to 43.75): VU032146.D (-577) (-)

Ion 57.10 (56.80 to 57.80): VU032146.D (-577) (-)



#18

trans-1,2-Dichloroethene

Concen: 4.862 ug/L

RT: 2.97 min Scan# 586

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

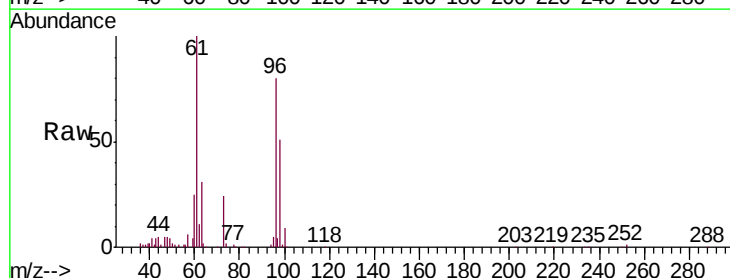
Tgt Ion: 96 Resp: 75990

Ion Ratio Lower Upper

96 100

61 124.3 86.5 160.7

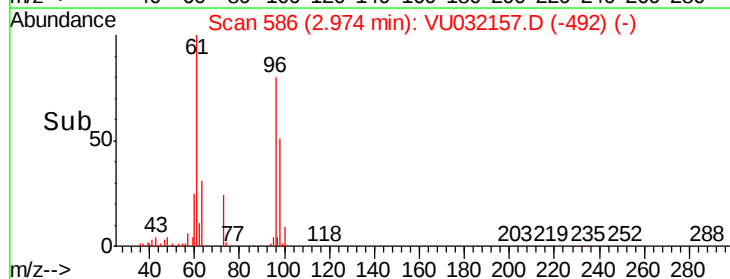
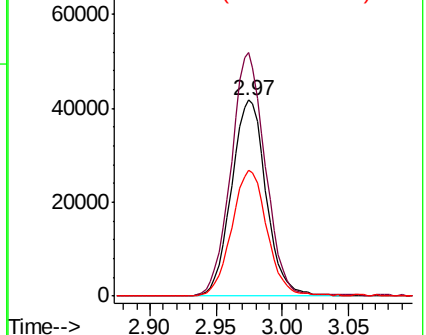
98 64.0 43.5 80.9

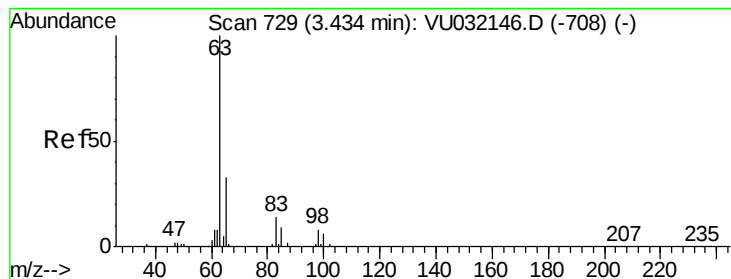


Abundance Ion 96.00 (95.70 to 96.70): VU032146.D (-572) (-)

Ion 61.05 (60.75 to 61.75): VU032146.D (-572) (-)

Ion 97.95 (97.65 to 98.65): VU032146.D (-572) (-)





#19

1,1-Dichloroethane

Concen: 4.910 ug/L

RT: 3.44 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00599

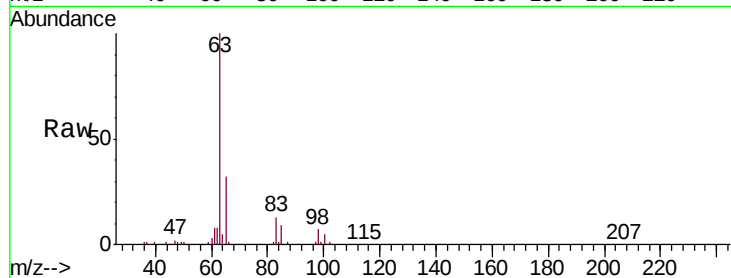
Tgt Ion: 63 Resp: 121754

Ion Ratio Lower Upper

63 100

65 32.1 23.0 42.6

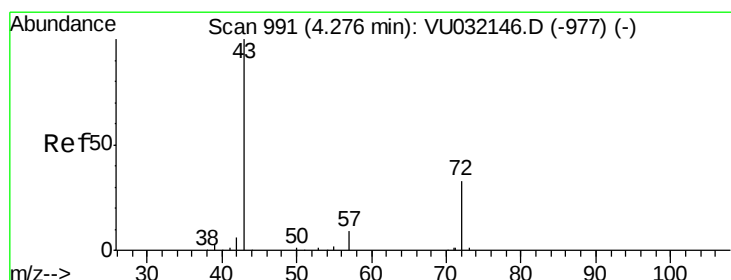
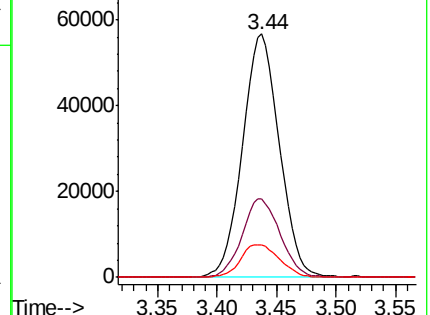
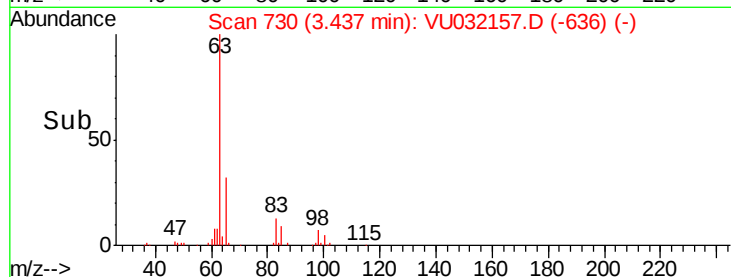
83 13.4 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU032157.D (-636) (-)

Ion 65.10 (64.80 to 65.80): VU032157.D (-636) (-)

Ion 83.05 (82.75 to 83.75): VU032157.D (-636) (-)



#21

2-Butanone

Concen: 48.930 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.01 min

Lab File: VU032157.D

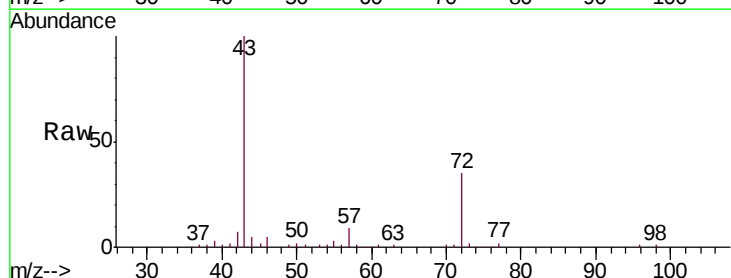
Acq: 20 May 2019 16:06

Tgt Ion: 43 Resp: 138648

Ion Ratio Lower Upper

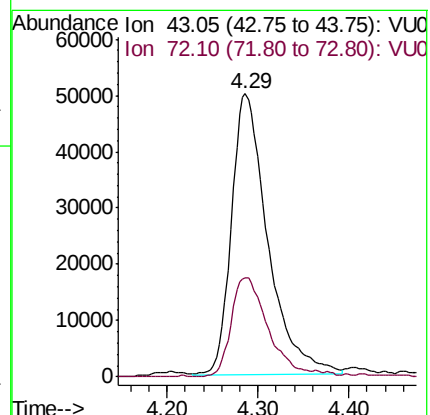
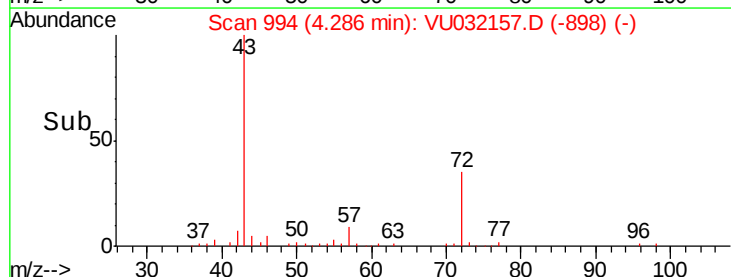
43 100

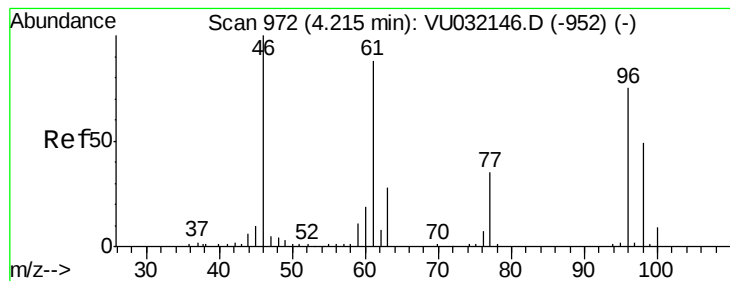
72 35.3 16.8 50.3



Abundance Ion 43.05 (42.75 to 43.75): VU032157.D (-898) (-)

Ion 72.10 (71.80 to 72.80): VU032157.D (-898) (-)



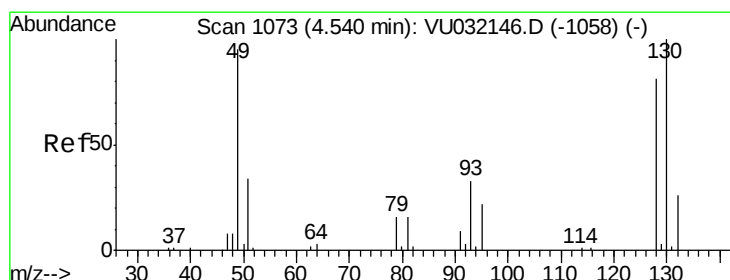
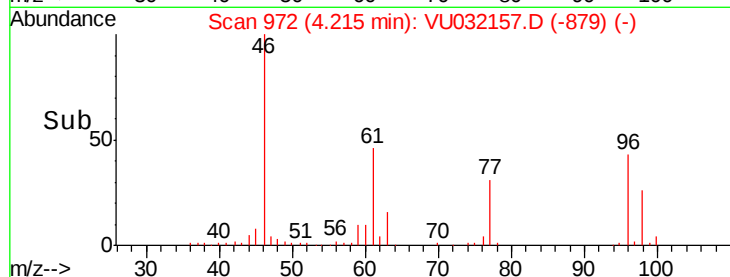
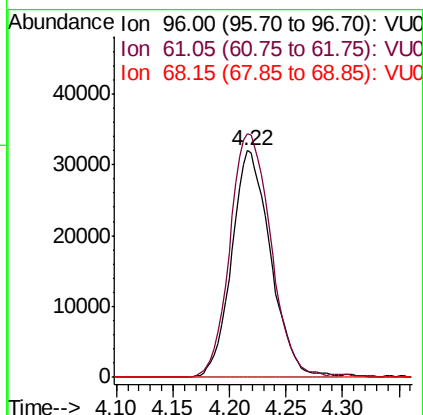
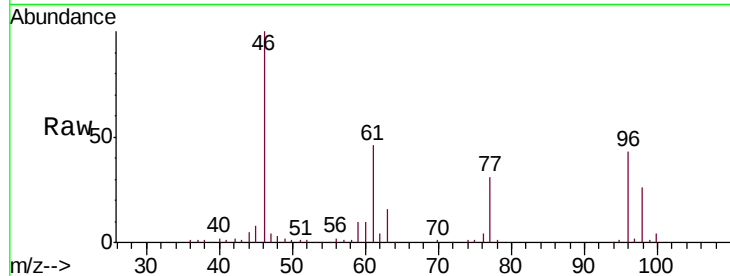


#22

cis-1,2-Dichloroethene
Concen: 4.986 ug/L
RT: 4.22 min Scan# 972
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD00599

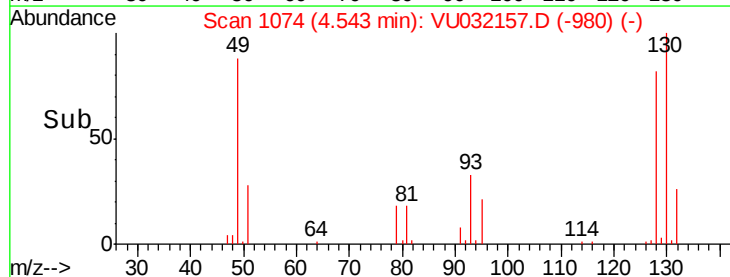
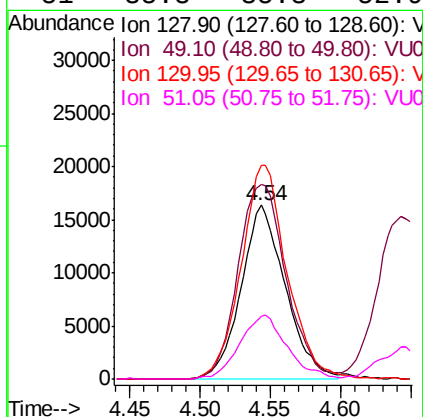
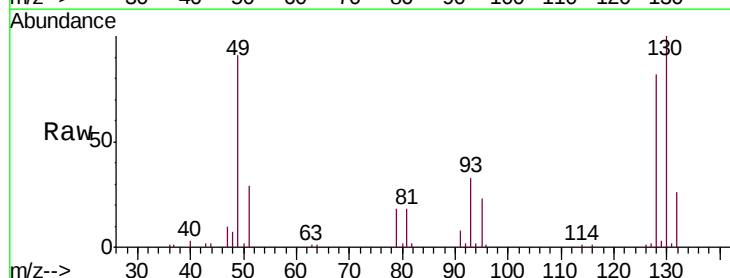
Tgt Ion: 96 Resp: 76672
Ion Ratio Lower Upper
96 100
61 107.5 85.8 159.4
68 0.0 0.0 0.0

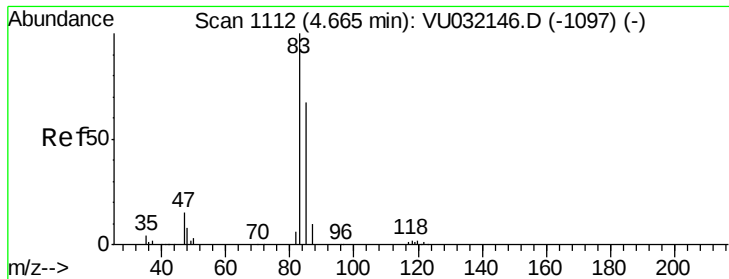


#23

Bromochloromethane
Concen: 5.452 ug/L
RT: 4.54 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Tgt Ion: 128 Resp: 35973
Ion Ratio Lower Upper
128 100
49 112.0 92.2 171.2
130 122.6 90.3 167.7
51 35.8 35.3 52.9

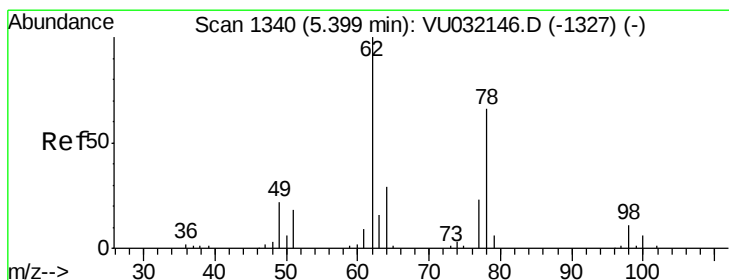
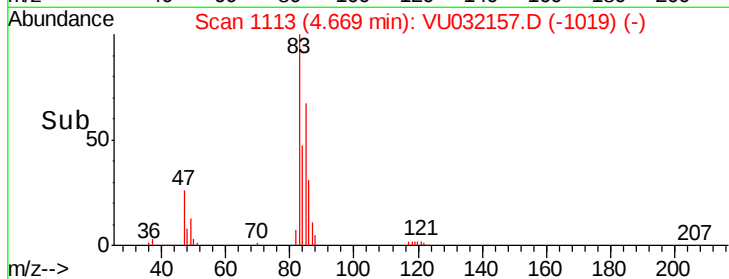
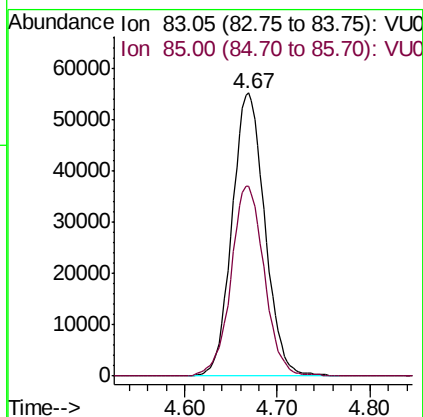
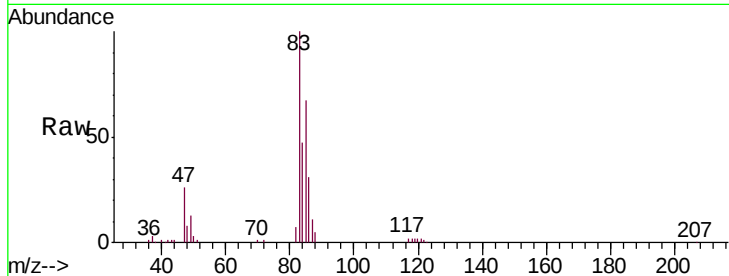




#25
Chloroform
Concen: 5.111 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

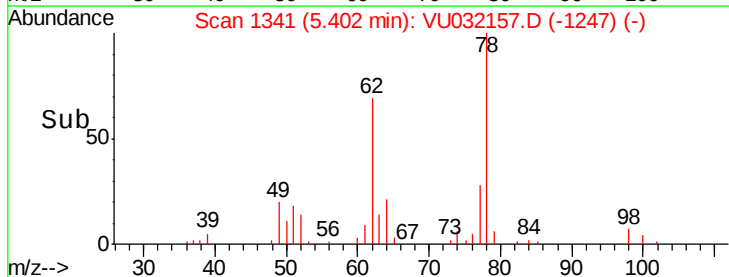
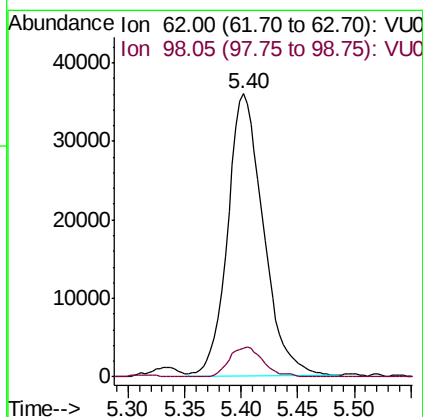
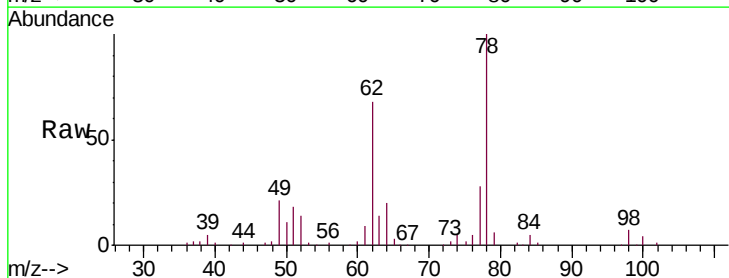
Instrument :
MSVOA_U
ClientSampleId :
VSTD00599

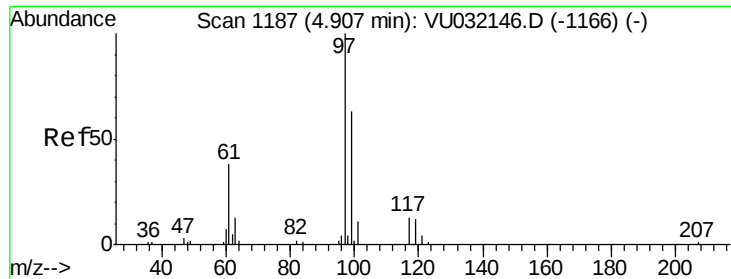
Tgt Ion: 83 Resp: 13510
Ion Ratio Lower Upper
83 100
85 66.9 44.9 83.3



#27
1,2-Dichloroethane
Concen: 5.146 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Tgt Ion: 62 Resp: 78787
Ion Ratio Lower Upper
62 100
98 10.2 8.0 12.0

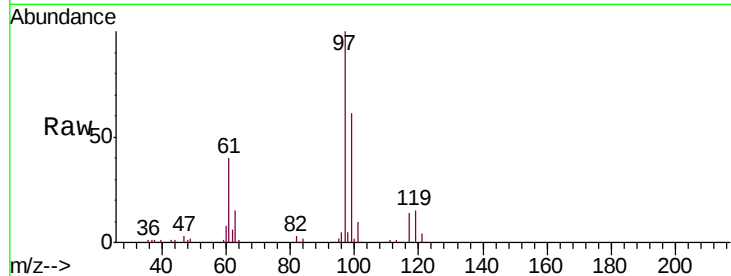




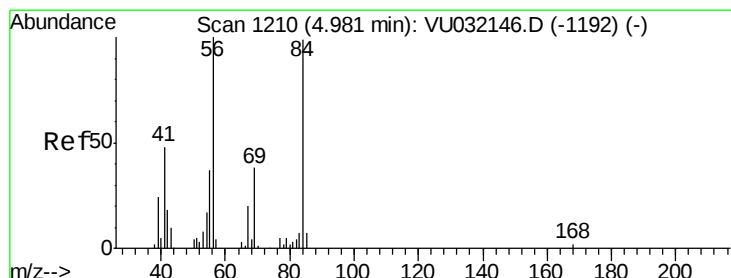
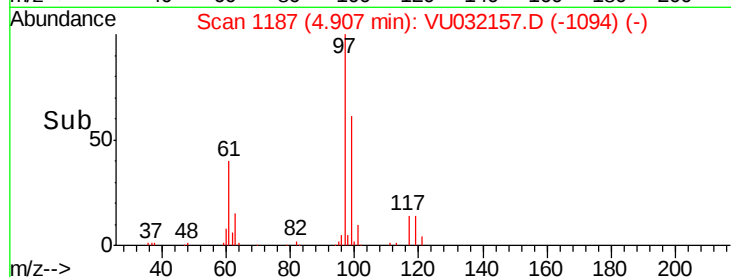
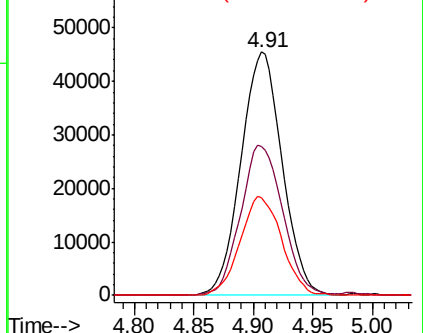
#29
 1,1,1-Trichloroethane
 Concen: 5.072 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00599

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.9	53.7	80.5
61	41.0	34.2	51.4

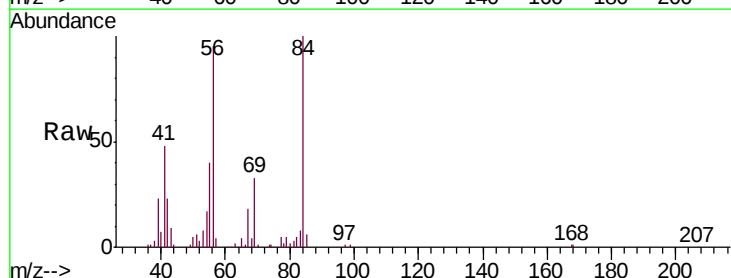


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

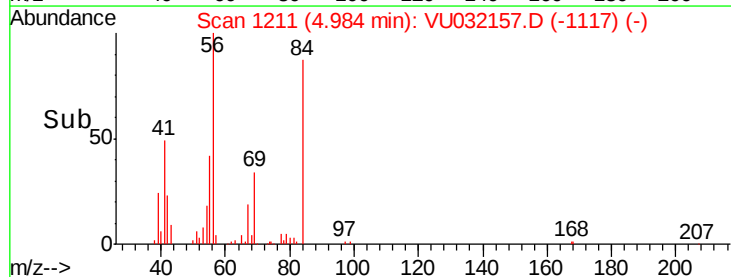
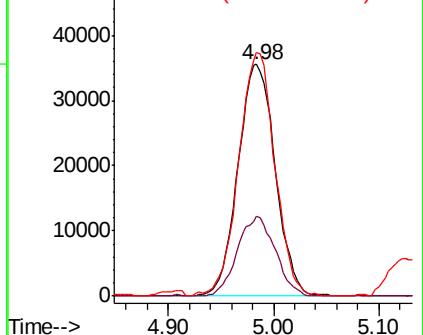


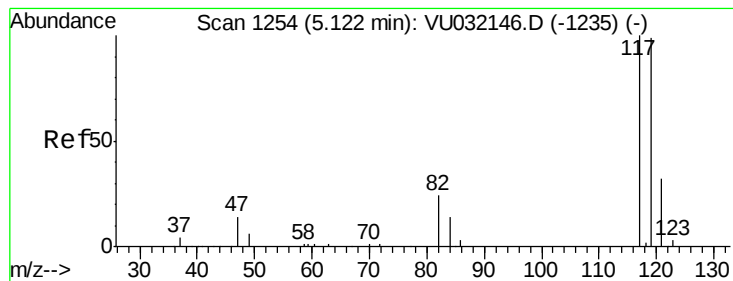
#30
 Cyclohexane
 Concen: 4.407 ug/L
 RT: 4.98 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

Tgt Ion	Ratio	Lower	Upper
56	100		
69	34.9	26.9	40.3
84	102.1	76.6	115.0



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: 5.351 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

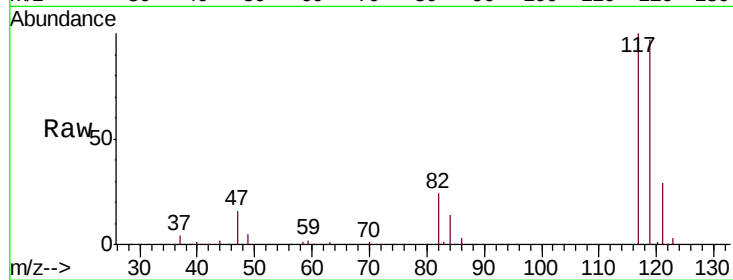
VSTD00599

Tgt Ion:117 Resp: 98046

Ion Ratio Lower Upper

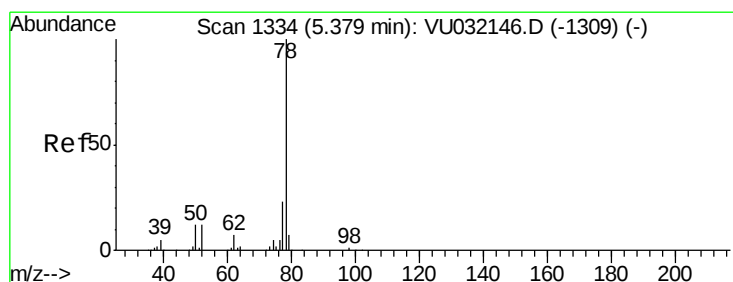
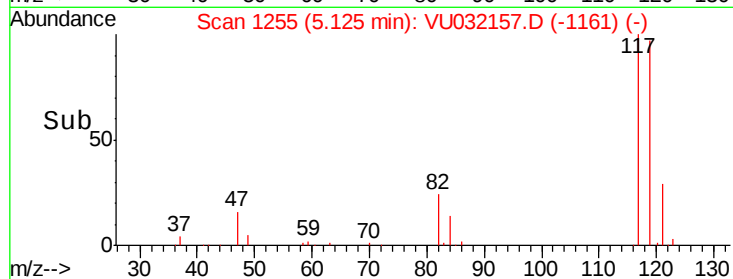
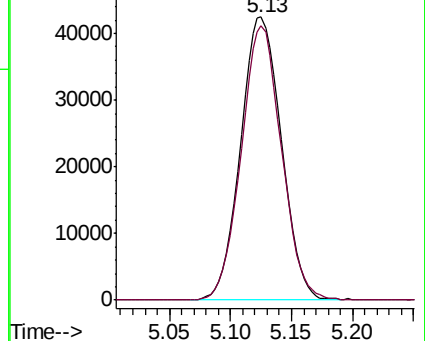
117 100

119 95.8 75.8 113.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.900 ug/L

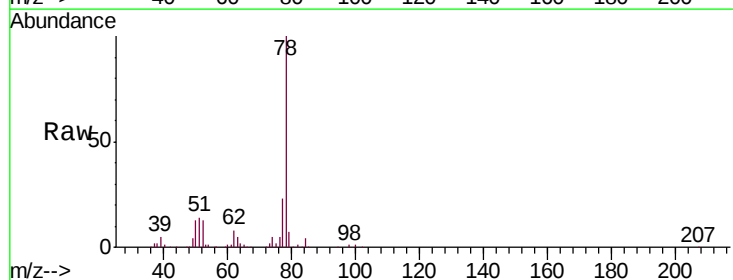
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU032157.D

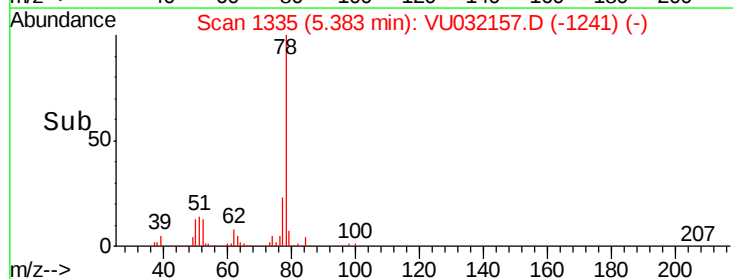
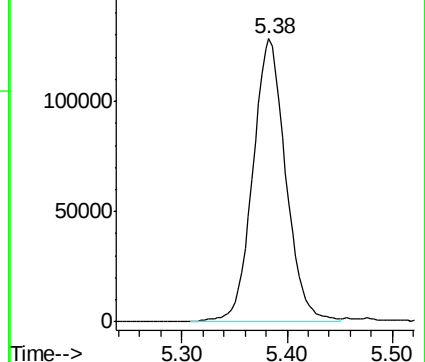
Acq: 20 May 2019 16:06

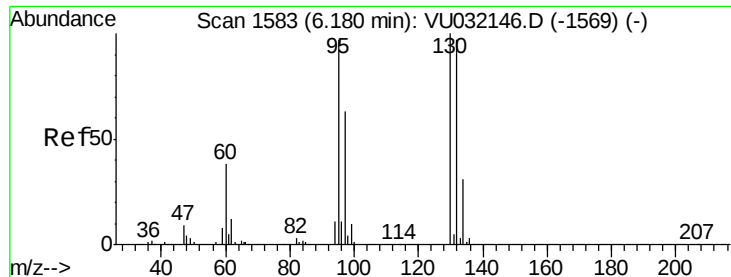
Tgt Ion: 78 Resp: 277936



Abundance Ion 78.10 (77.80 to 78.80): VU0

150000





#34

Trichloroethene

Concen: 4.990 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00599

Tgt Ion: 95 Resp: 76774

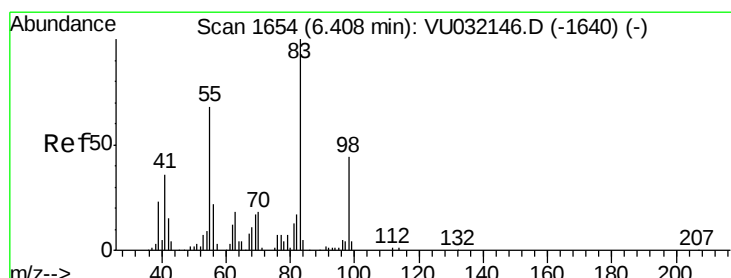
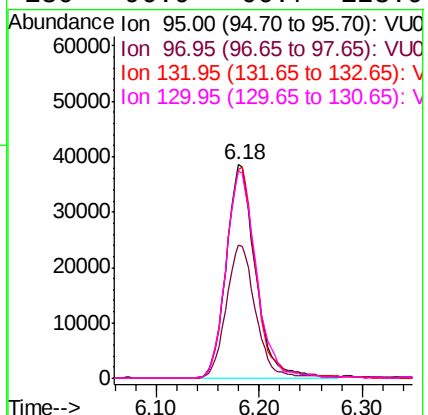
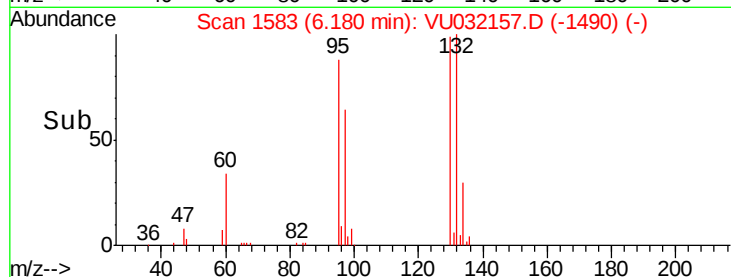
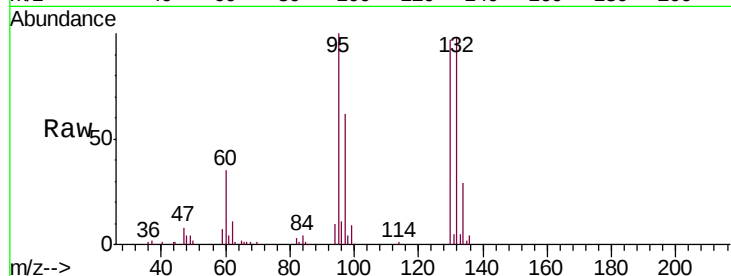
Ion Ratio Lower Upper

95 100

97 62.3 45.2 84.0

132 97.7 66.1 122.7

130 96.9 66.7 123.9



#35

Methylcyclohexane

Concen: 4.608 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

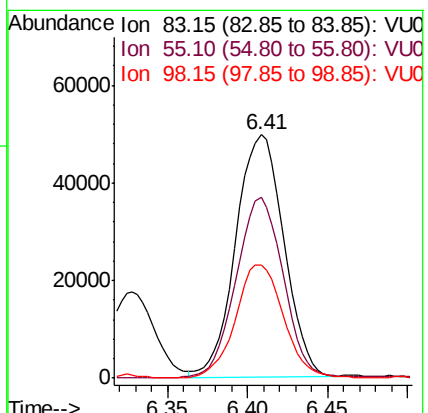
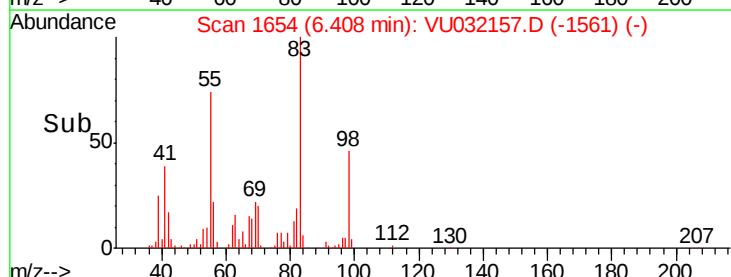
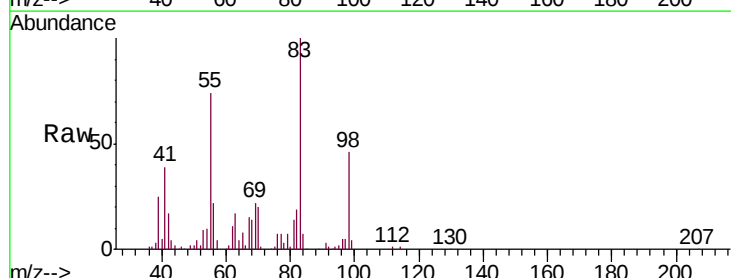
Tgt Ion: 83 Resp: 102081

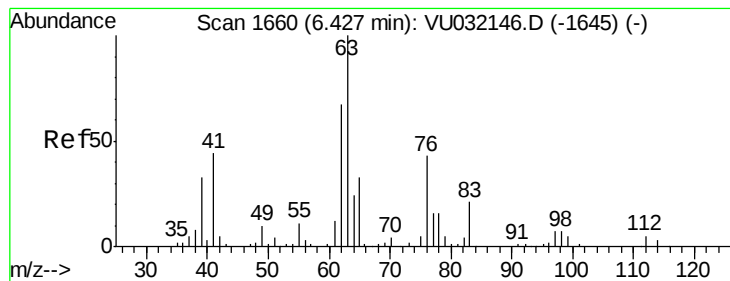
Ion Ratio Lower Upper

83 100

55 73.4 59.7 89.5

98 46.7 36.8 55.2





#37

1,2-Dichloropropane

Concen: 4.798 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

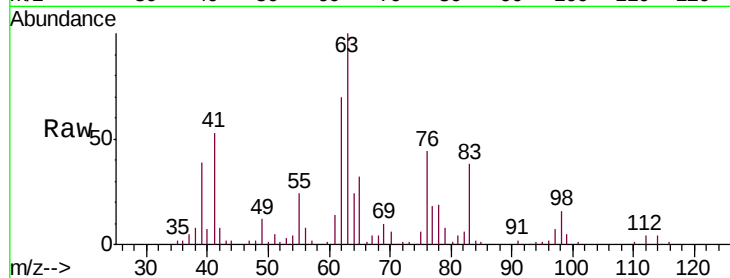
VSTD00599

Tgt Ion: 63 Resp: 66537

Ion Ratio Lower Upper

63 100

112 4.4 3.8 5.6



Abundance Ion 63.10 (62.80 to 63.80): VU032146.D (-1645) (-)

Ion 112.10 (111.80 to 112.80): VU032146.D (-1645) (-)

6.43

30000

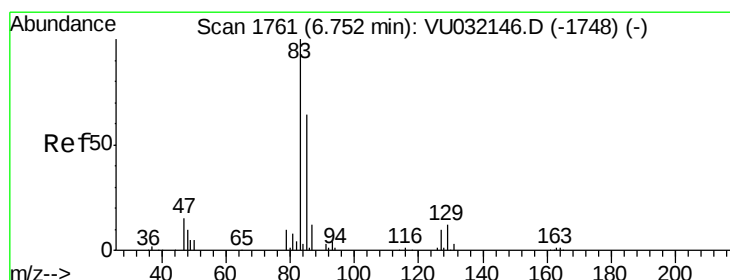
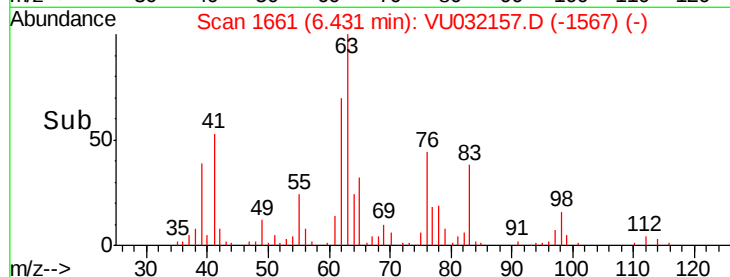
20000

10000

0

6.35 6.40 6.45 6.50

Time-->



#38

Bromodichloromethane

Concen: 5.103 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

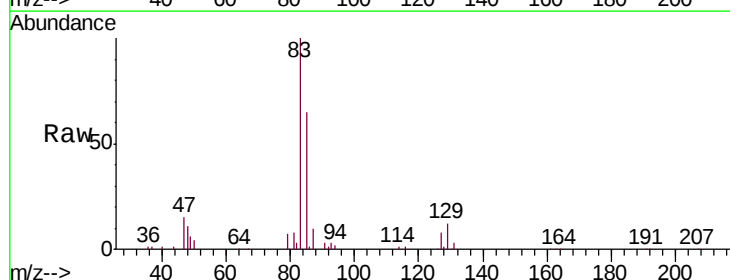
Tgt Ion: 83 Resp: 90526

Ion Ratio Lower Upper

83 100

85 65.3 45.5 84.5

127 8.0 6.3 9.5



Abundance Ion 82.95 (82.65 to 83.65): VU032146.D (-1748) (-)

Ion 85.00 (84.70 to 85.70): VU032146.D (-1748) (-)

Ion 126.90 (126.60 to 127.60): VU032146.D (-1748) (-)

6.75

60000

50000

40000

30000

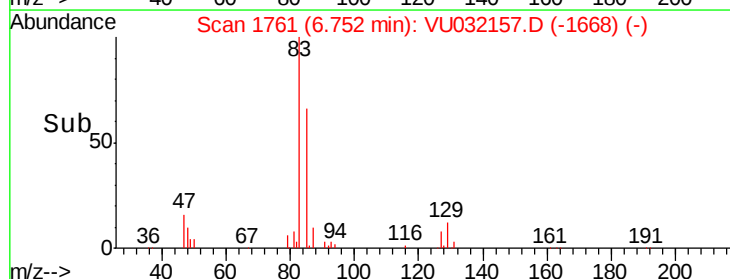
20000

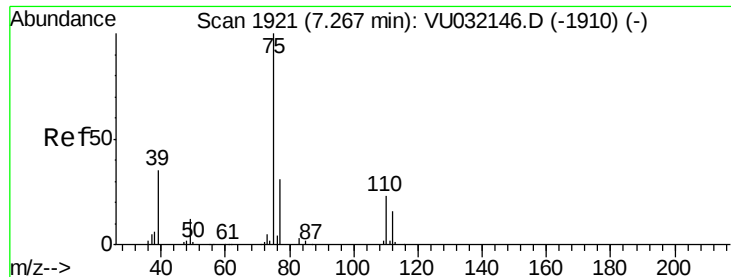
10000

0

6.65 6.70 6.75 6.80 6.85

Time-->

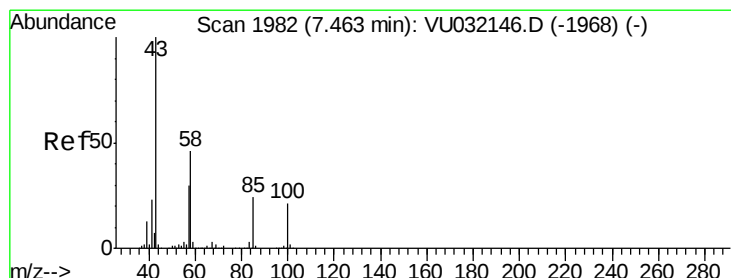
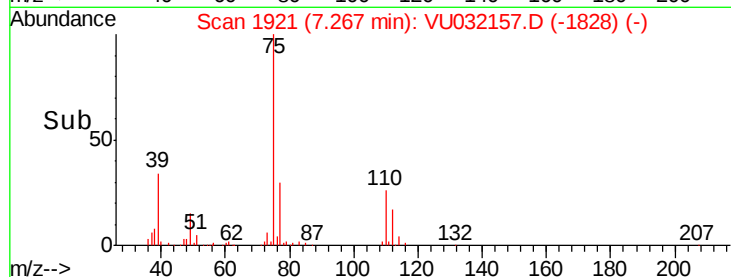
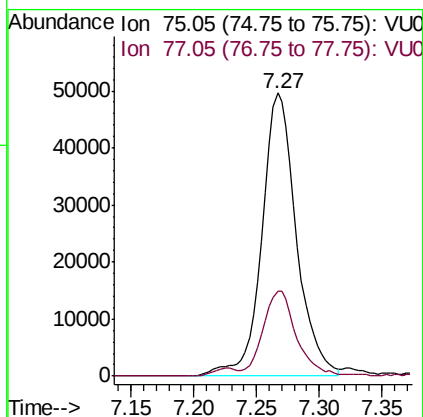
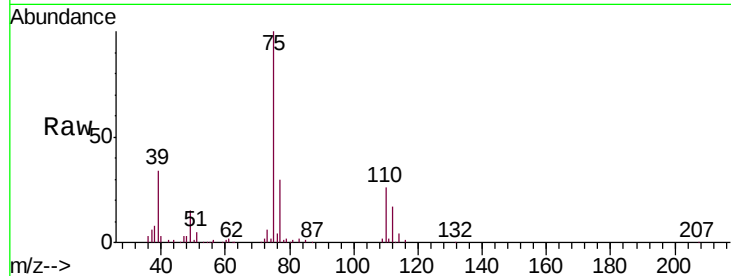




#39
 cis-1,3-Dichloropropene
 Concen: 4.961 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

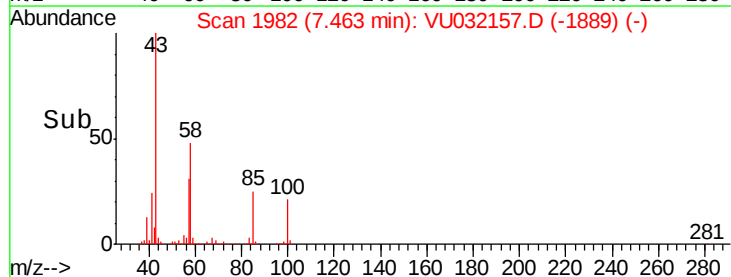
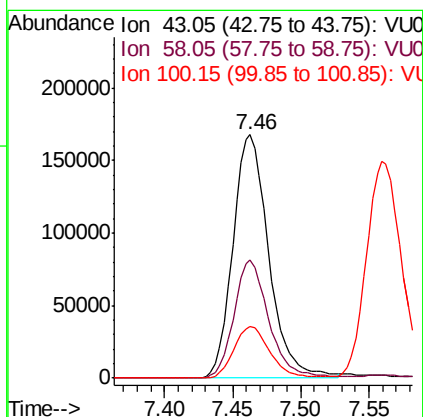
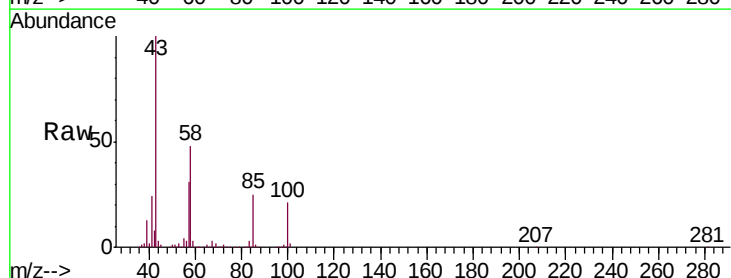
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00599

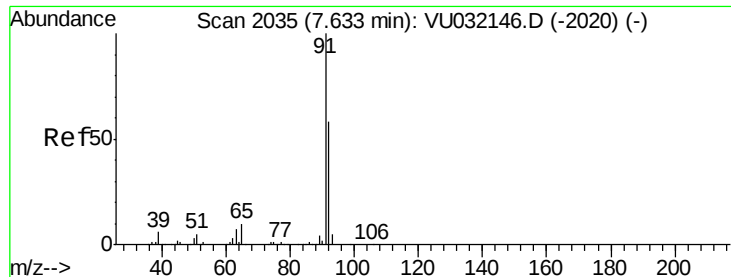
Tgt Ion: 75 Resp: 95133
 Ion Ratio Lower Upper
 75 100
 77 29.9 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 47.674 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

Tgt Ion: 43 Resp: 306485
 Ion Ratio Lower Upper
 43 100
 58 47.2 37.3 55.9
 100 21.1 15.5 23.3





#42

Toluene

Concen: 5.234 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

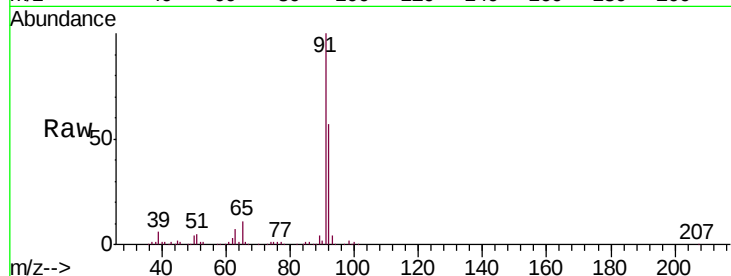
VSTD00599

Tgt Ion: 91 Resp: 310939

Ion Ratio Lower Upper

91 100

92 57.5 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU032157.D (-1942) (-)

Ion 92.15 (91.85 to 92.85): VU032157.D (-1942) (-)

7.63

150000

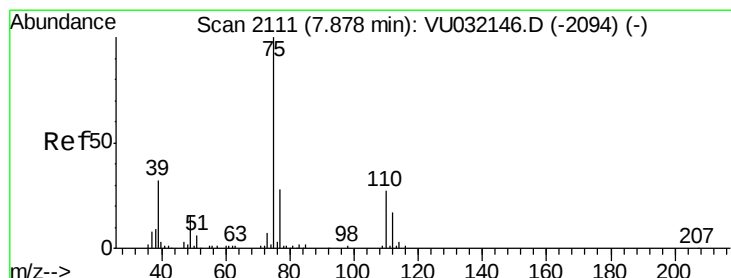
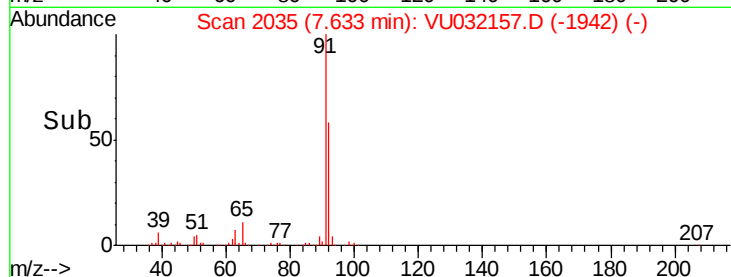
100000

50000

0

7.60 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.973 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU032157.D

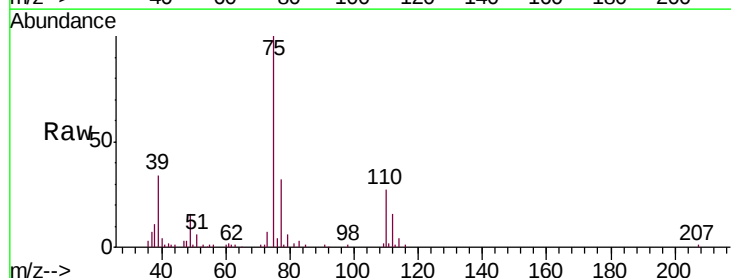
Acq: 20 May 2019 16:06

Tgt Ion: 75 Resp: 74148

Ion Ratio Lower Upper

75 100

77 31.8 21.0 39.0



Abundance Ion 75.05 (74.75 to 75.75): VU032157.D (-2018) (-)

Ion 77.05 (76.75 to 77.75): VU032157.D (-2018) (-)

7.88

40000

30000

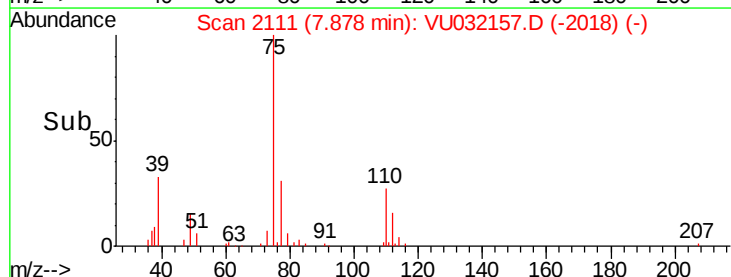
20000

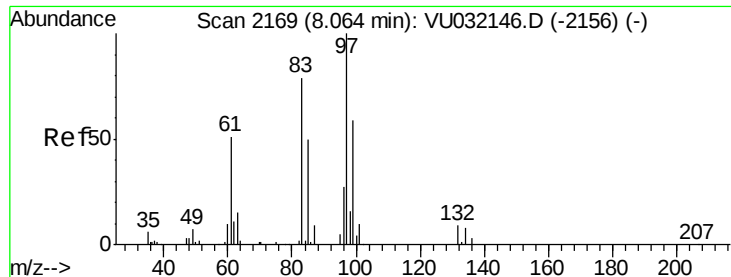
10000

0

7.80 7.85 7.90 7.95

Time-->

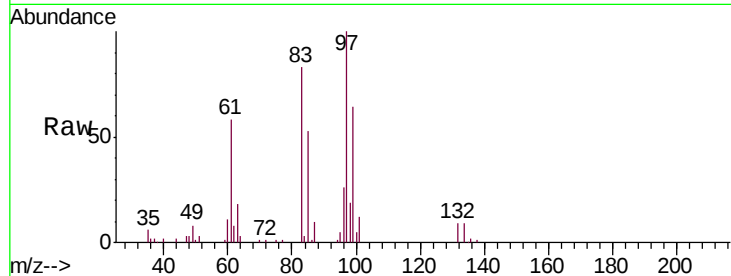




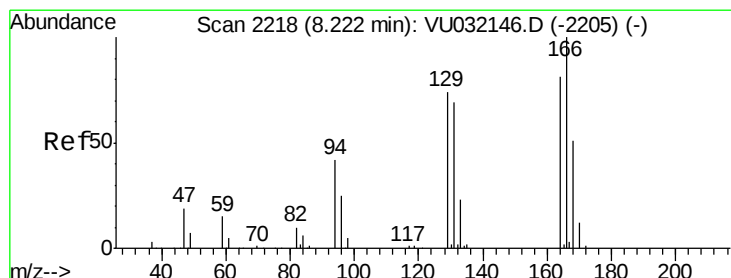
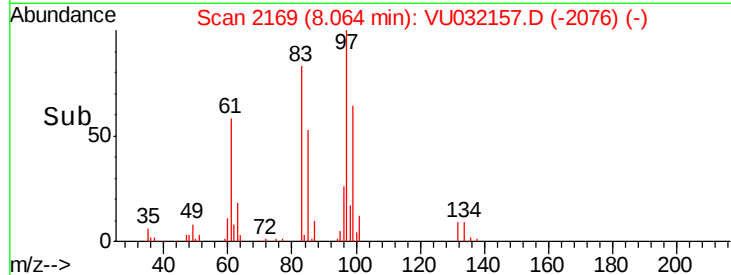
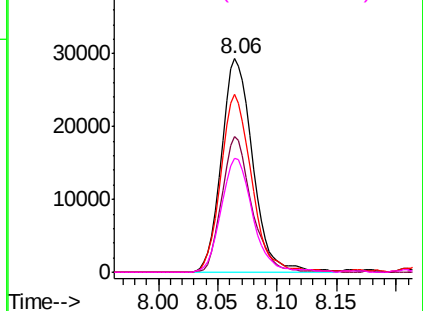
#45
 1,1,2-Trichloroethane
 Concen: 5.229 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00599

Tgt Ion:	97	Resp:	53568
Ion	Ratio	Lower	Upper
97	100		
99	63.7	40.7	75.7
83	83.3	59.6	110.8
85	53.5	37.3	69.3

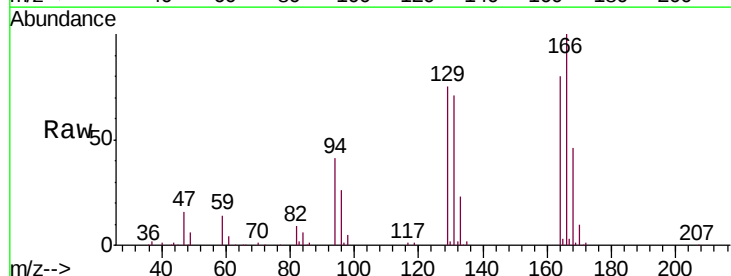


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

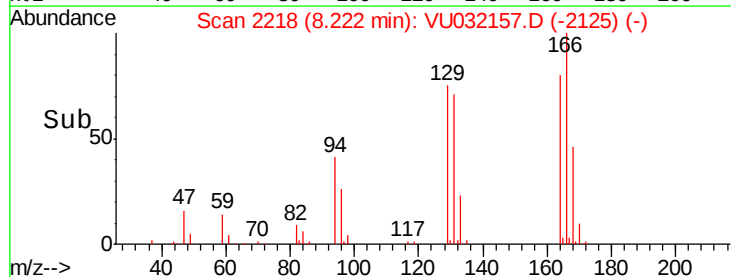
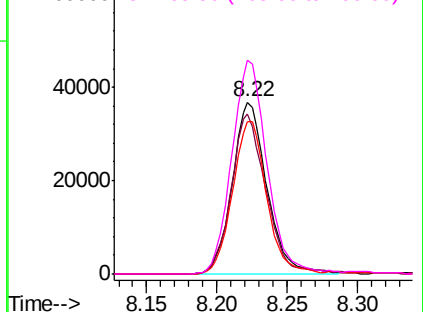


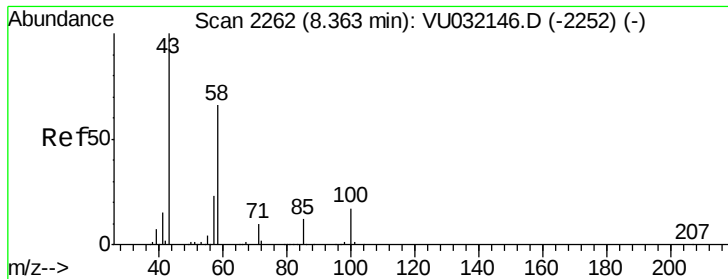
#47
 Tetrachloroethene
 Concen: 5.509 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

Tgt Ion:	164	Resp:	63363
Ion	Ratio	Lower	Upper
164	100		
129	93.0	70.3	130.5
131	88.3	64.5	119.9
166	124.3	92.3	171.5



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

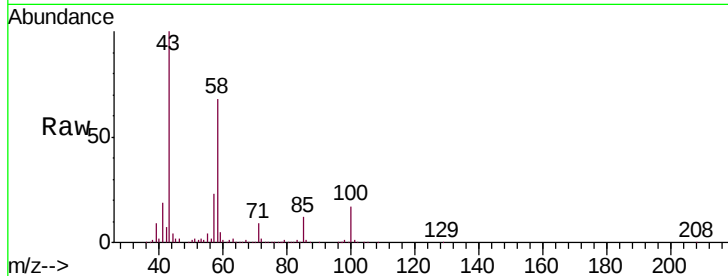




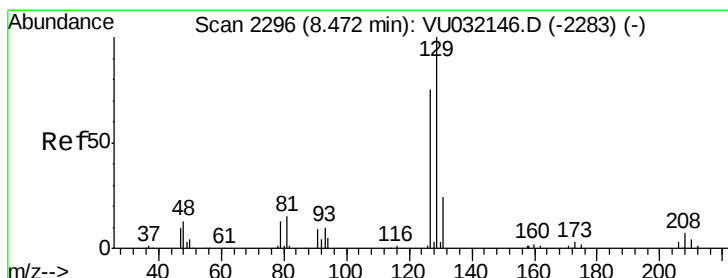
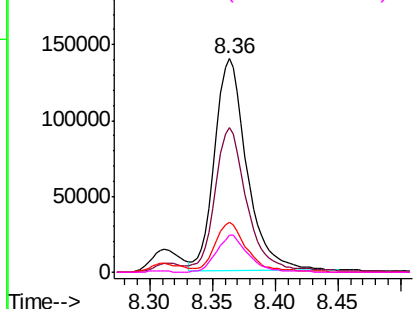
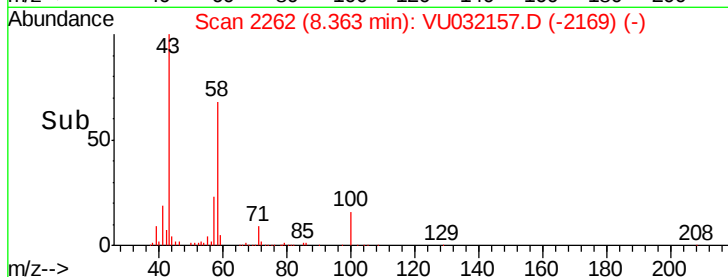
#48
2-Hexanone
Concen: 50.545 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD00599

Tgt Ion: 43 Resp: 252043
Ion Ratio Lower Upper
43 100
58 67.4 51.6 77.4
57 23.1 18.4 27.6
100 16.8 12.2 18.4

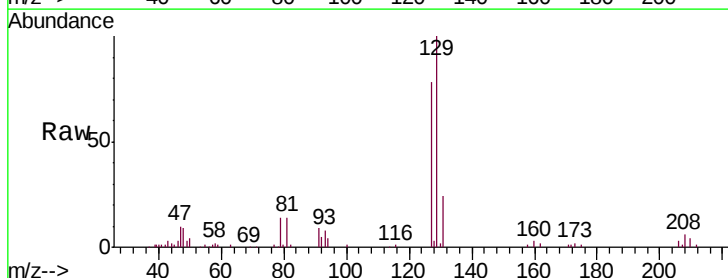


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

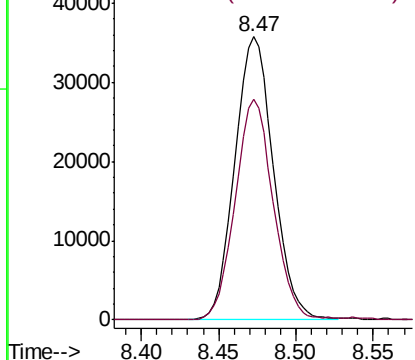
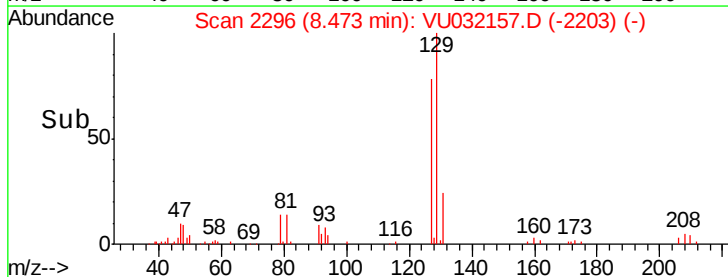


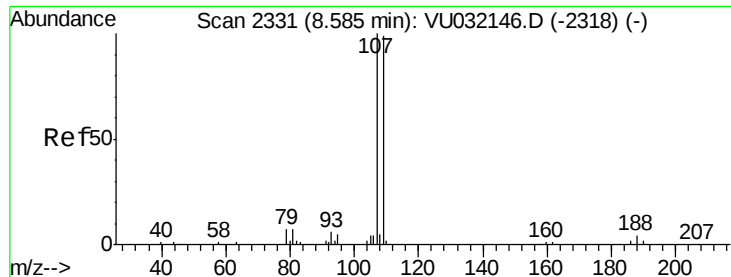
#49
Dibromochloromethane
Concen: 5.249 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Tgt Ion: 129 Resp: 61974
Ion Ratio Lower Upper
129 100
127 78.1 55.2 102.6



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

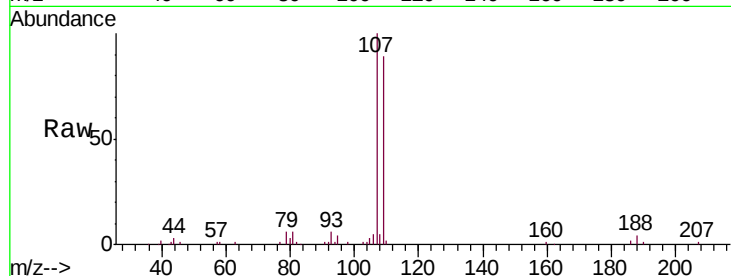




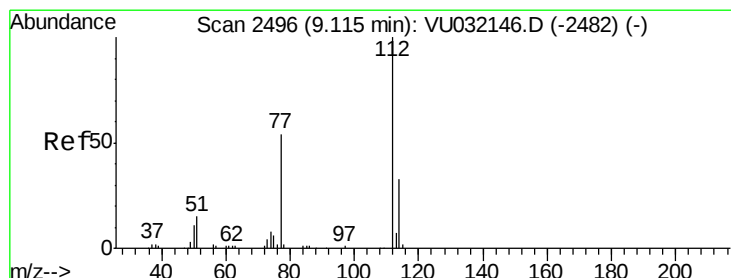
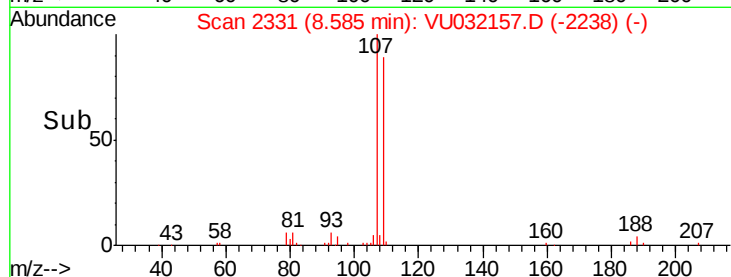
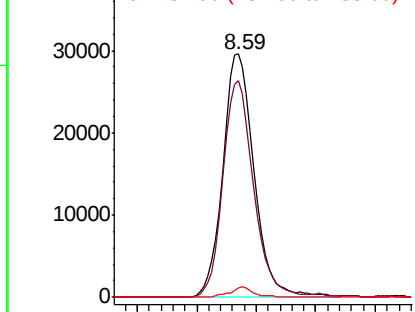
#50
1,2-Dibromoethane
Concen: 5.481 ug/L
RT: 8.59 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD00599

Tgt Ion:107 Resp: 53803
Ion Ratio Lower Upper
107 100
109 89.1 67.8 125.8
188 3.9 3.5 5.3

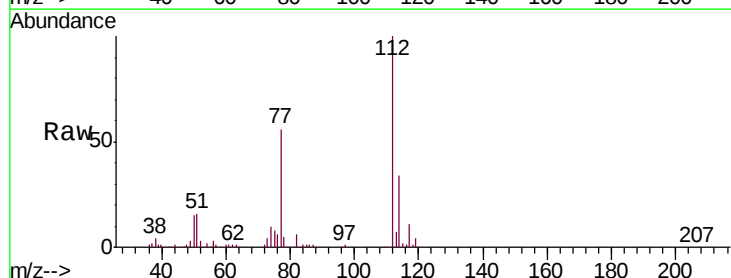


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

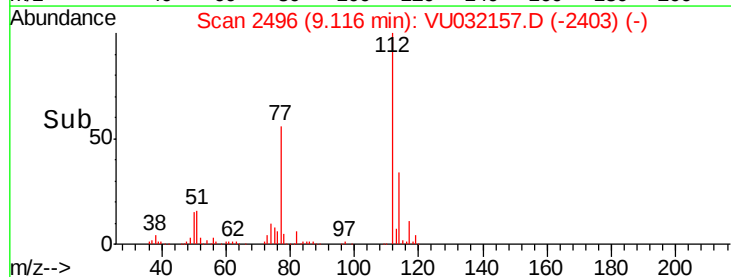
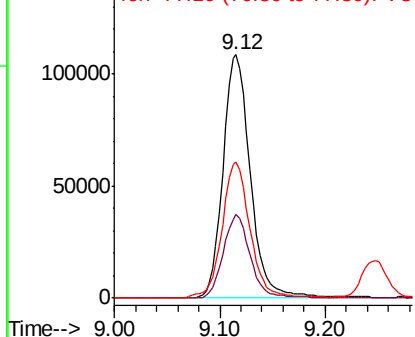


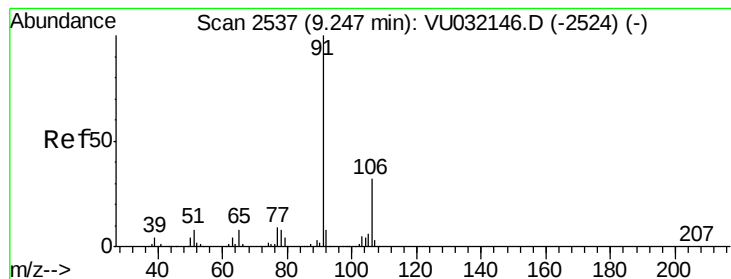
#51
Chlorobenzene
Concen: 5.198 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Tgt Ion:112 Resp: 195011
Ion Ratio Lower Upper
112 100
114 34.1 21.6 40.2
77 56.1 50.3 75.5



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): V





#52

Ethylbenzene

Concen: 4.940 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

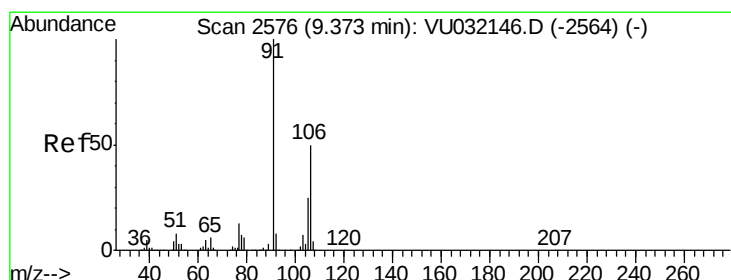
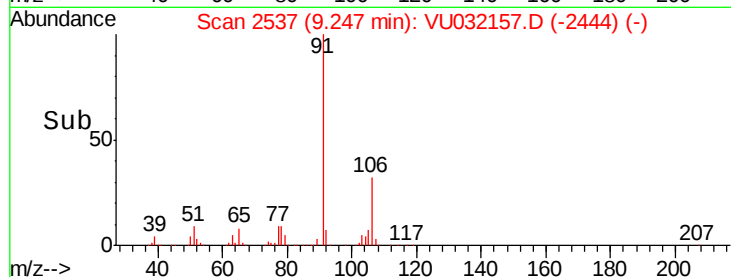
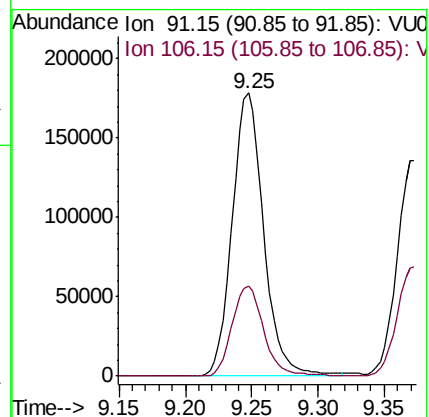
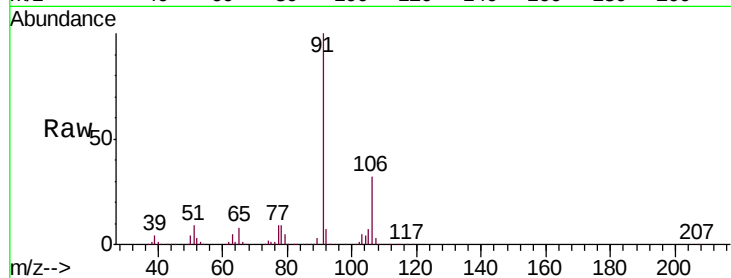
VSTD00599

Tgt Ion: 91 Resp: 294410

Ion Ratio Lower Upper

91 100

106 31.7 21.3 39.6



#53

m,p-Xylene

Concen: 5.209 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032157.D

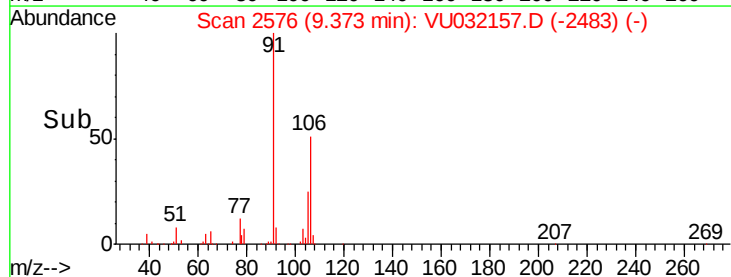
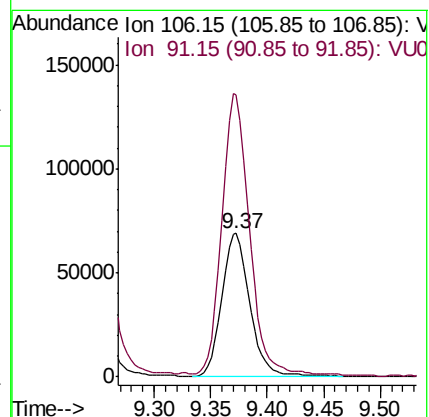
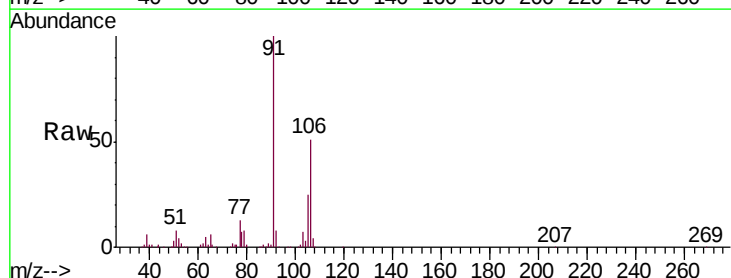
Acq: 20 May 2019 16:06

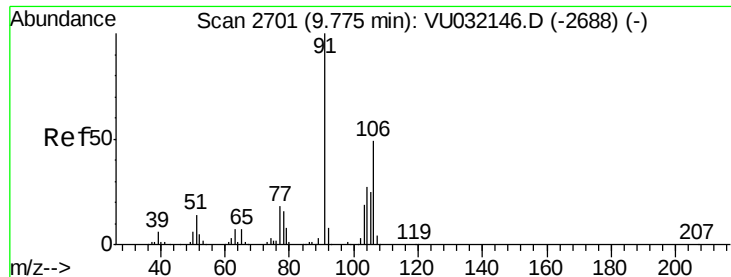
Tgt Ion: 106 Resp: 117910

Ion Ratio Lower Upper

106 100

91 197.0 143.1 265.9

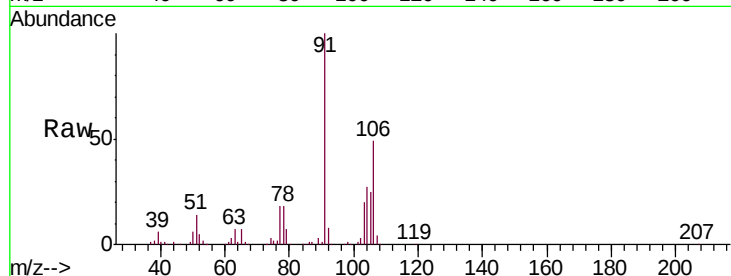




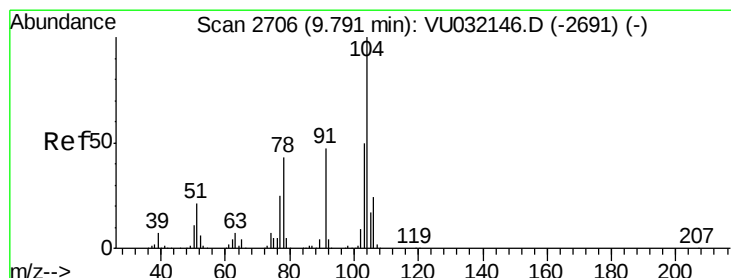
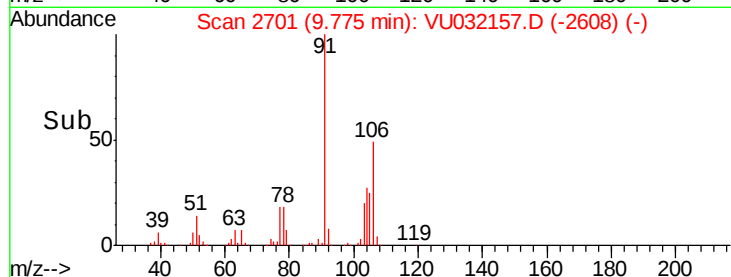
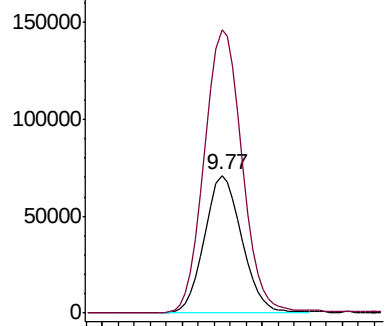
#54
o-Xylene
Concen: 5.200 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD00599

Tgt Ion:106 Resp: 113456
Ion Ratio Lower Upper
106 100
91 205.6 152.9 283.9

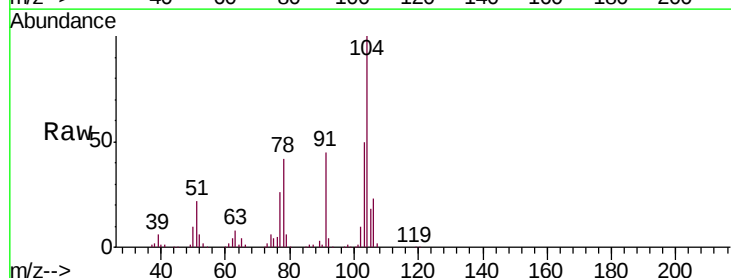


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

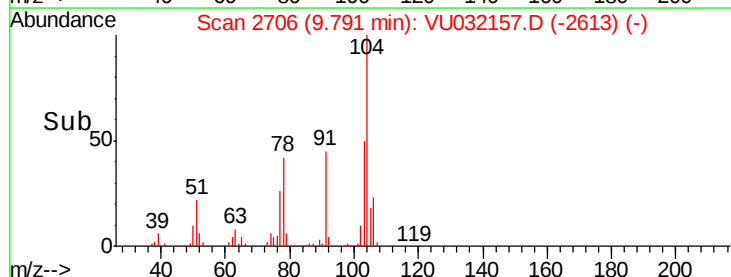
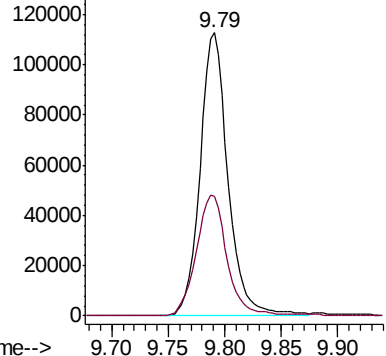


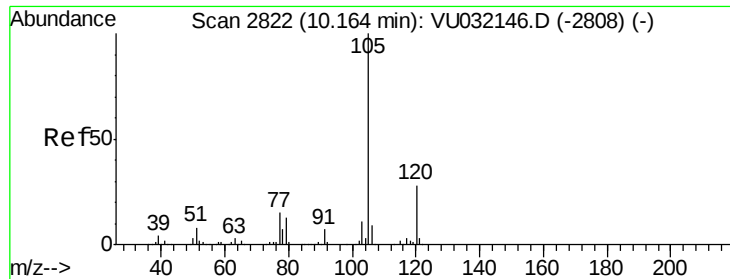
#55
Styrene
Concen: 5.237 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU032157.D
Acq: 20 May 2019 16:06

Tgt Ion:104 Resp: 193742
Ion Ratio Lower Upper
104 100
78 42.4 31.2 58.0



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





#56

Isopropylbenzene

Concen: 5.244 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00599

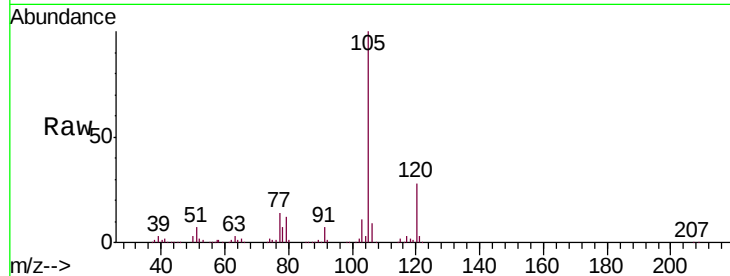
Tgt Ion: 105 Resp: 292444

Ion Ratio Lower Upper

105 100

120 26.8 20.7 31.1

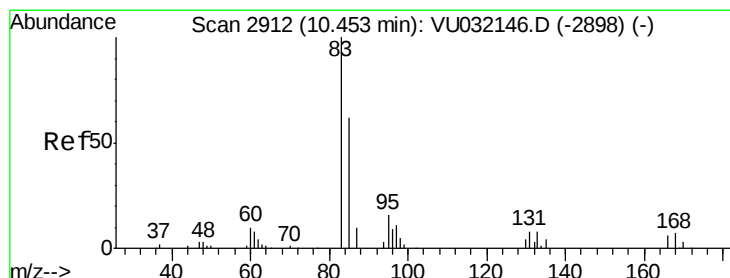
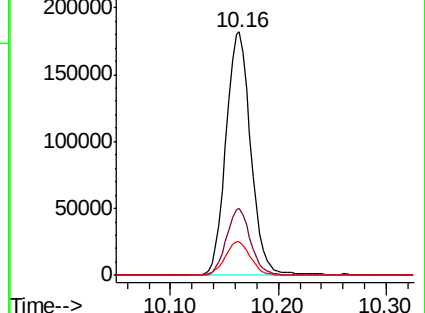
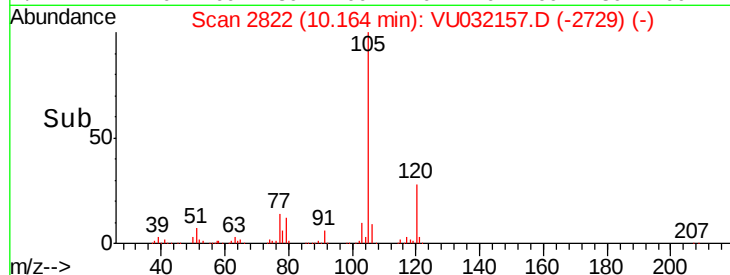
77 14.2 12.3 18.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.038 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

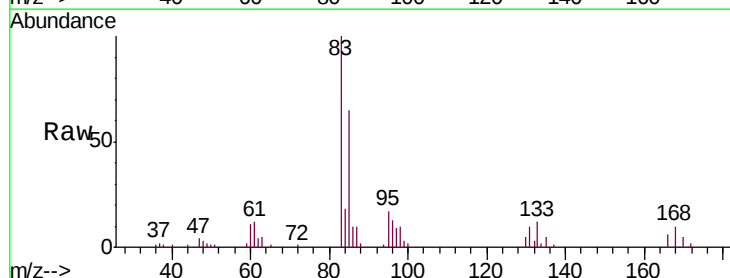
Tgt Ion: 83 Resp: 64392

Ion Ratio Lower Upper

83 100

85 65.2 44.3 82.3

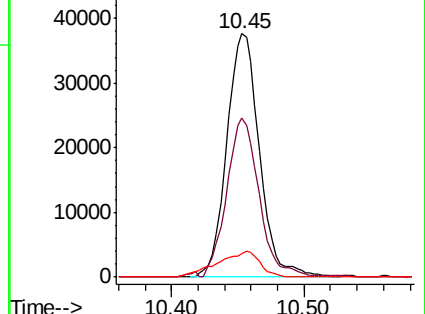
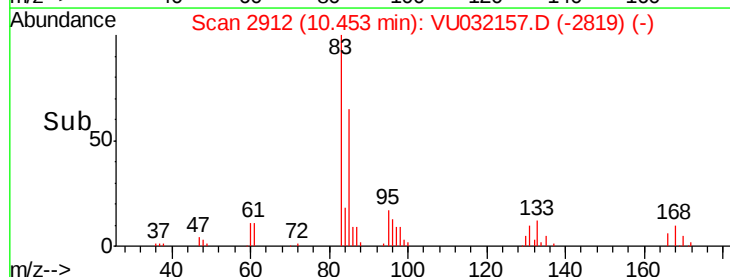
131 9.7 7.4 11.2

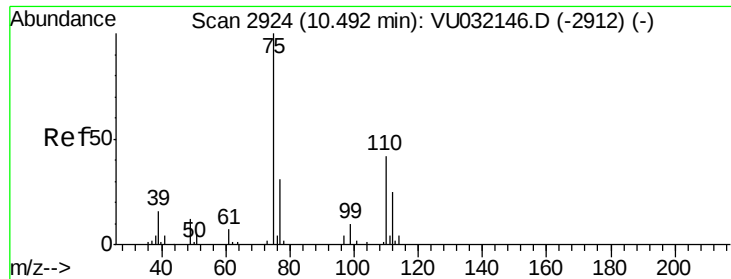


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

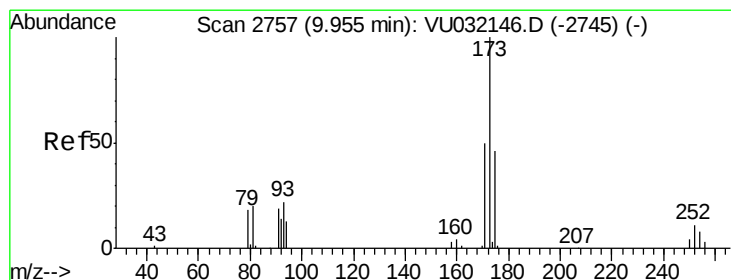
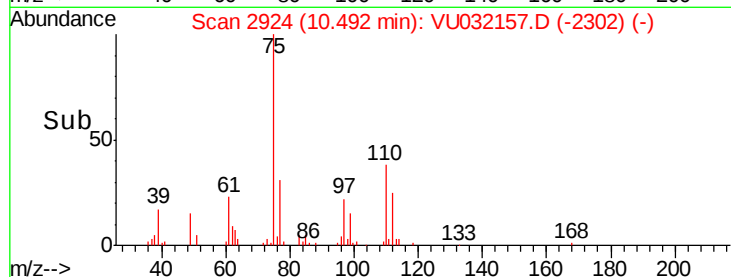
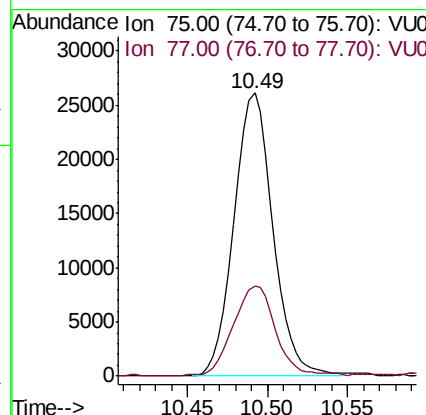
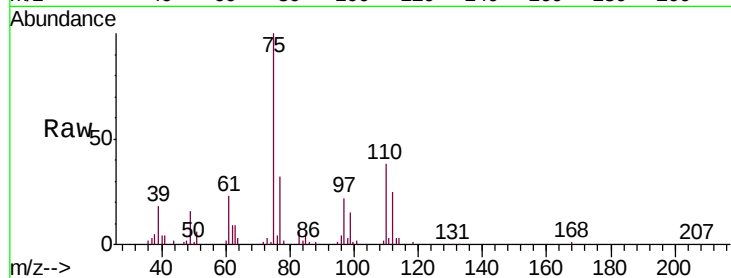




#59
 1,2,3-Trichloropropane
 Concen: 4.924 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

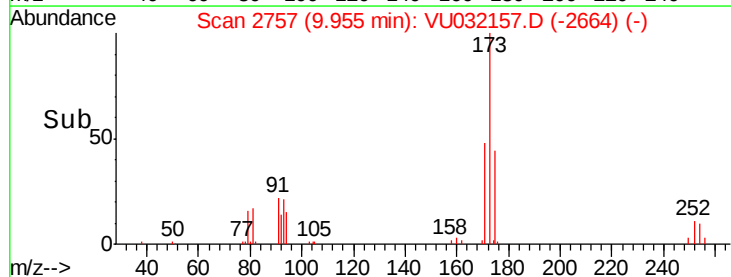
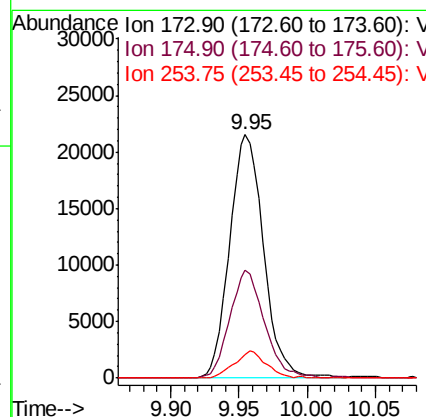
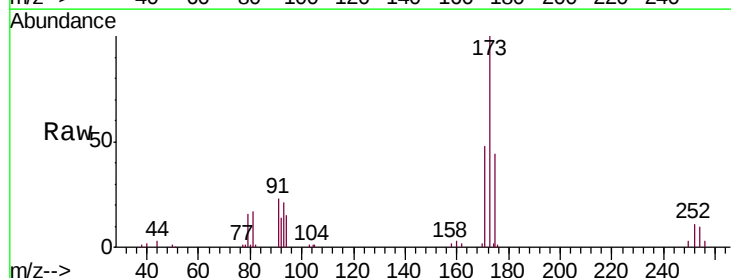
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00599

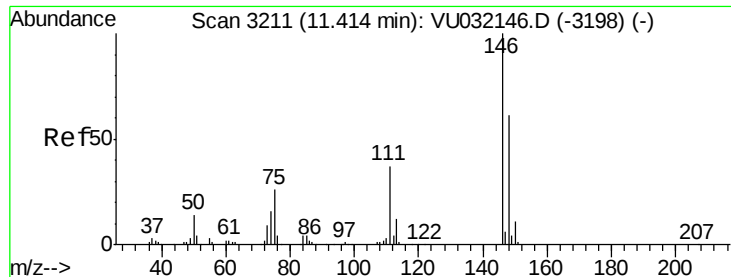
Tgt Ion: 75 Resp: 43372
 Ion Ratio Lower Upper
 75 100
 77 34.8 26.2 39.2



#61
 Bromoform
 Concen: 5.533 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

Tgt Ion: 173 Resp: 37179
 Ion Ratio Lower Upper
 173 100
 175 45.2 38.0 57.0
 254 10.3 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.050 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00599

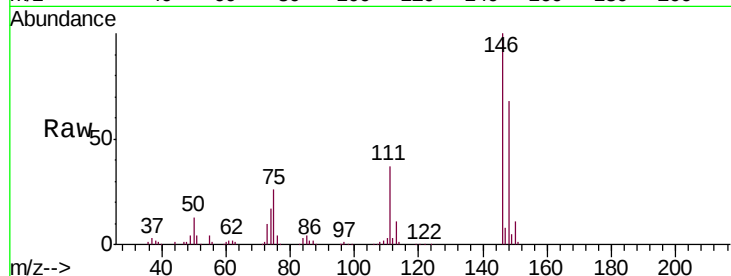
Tgt Ion:146 Resp: 140868

Ion Ratio Lower Upper

146 100

111 37.1 27.7 51.5

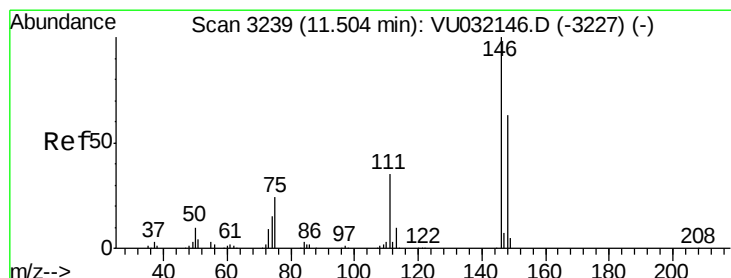
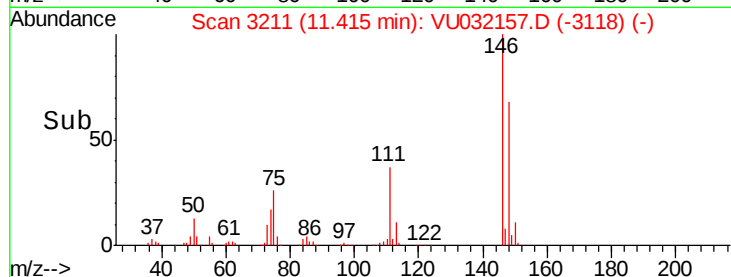
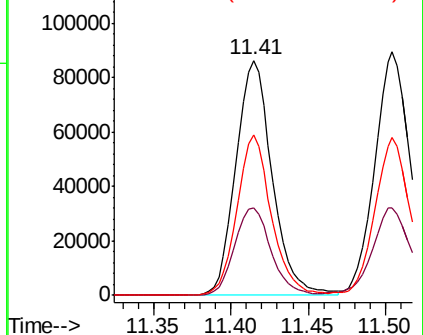
148 68.1 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.966 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

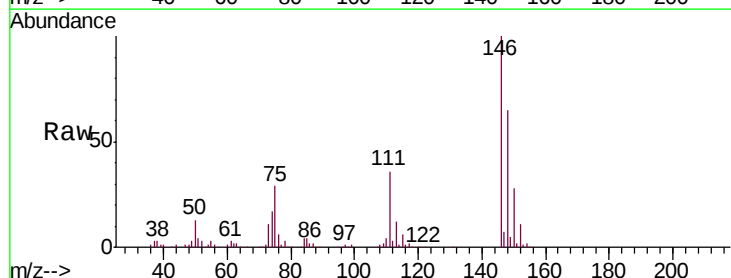
Tgt Ion:146 Resp: 144161

Ion Ratio Lower Upper

146 100

111 36.1 27.1 50.3

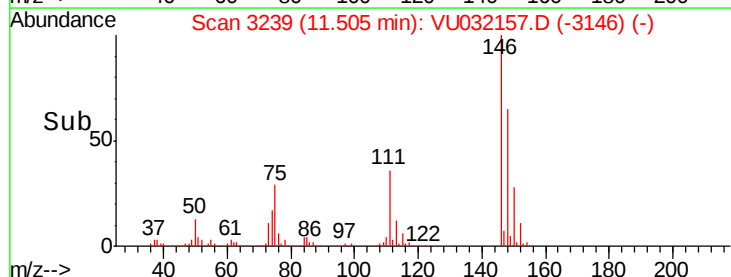
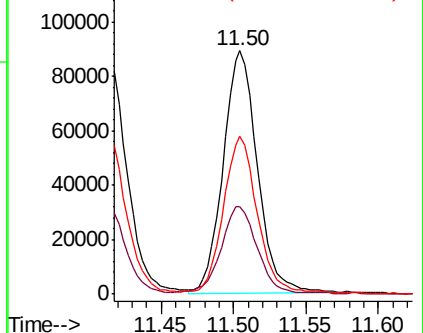
148 64.8 45.4 84.4

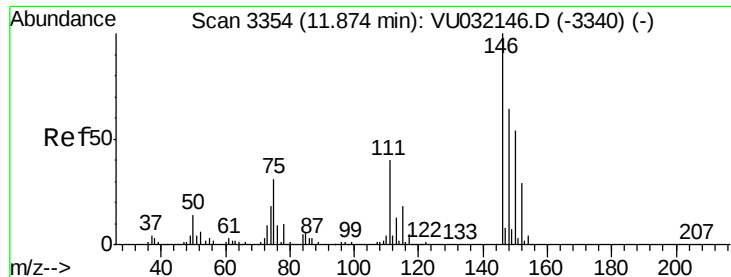


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

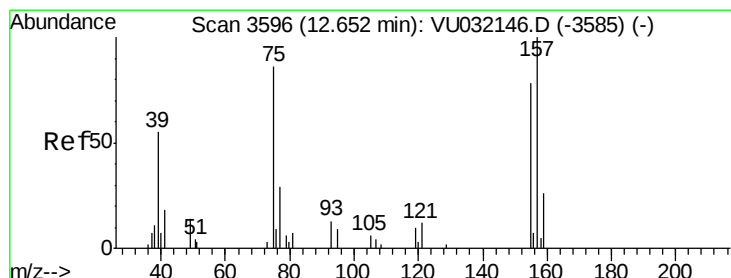
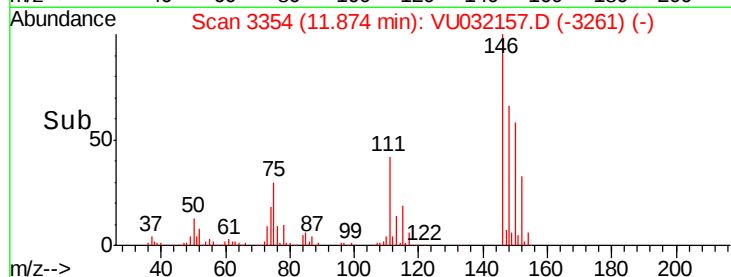
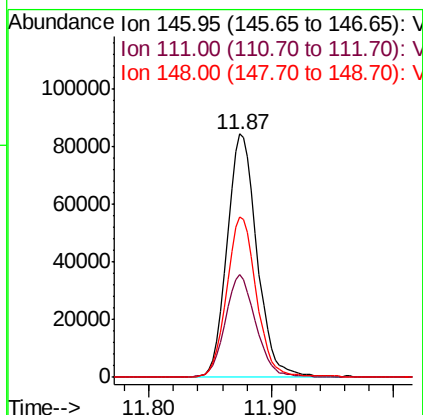
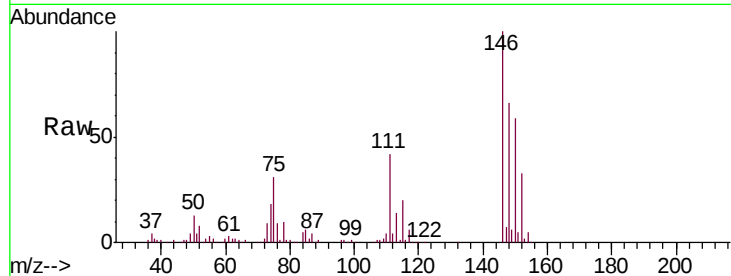




#65
 1,2-Dichlorobenzene
 Concen: 5.127 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

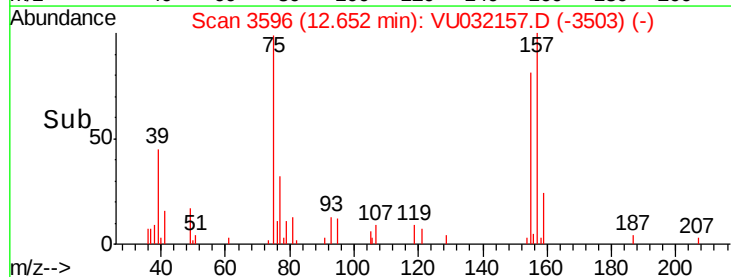
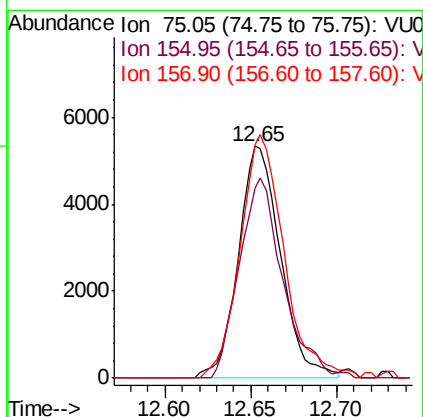
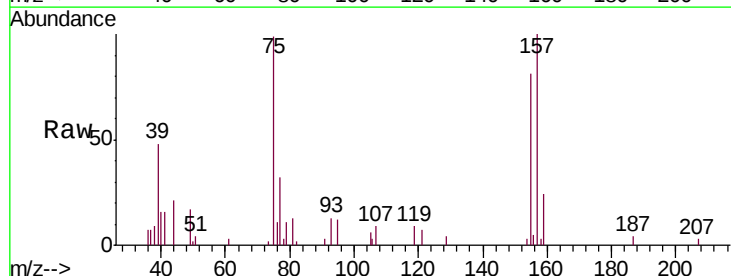
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00599

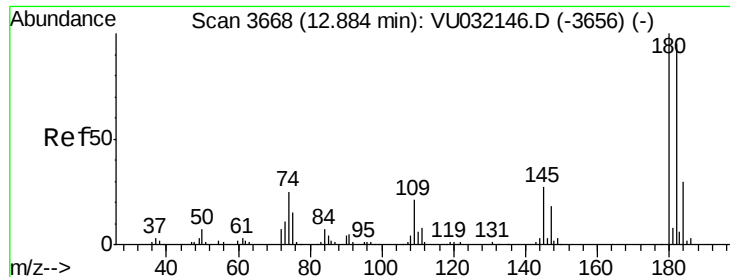
Tgt Ion:146 Resp: 145104
 Ion Ratio Lower Upper
 146 100
 111 42.0 33.5 50.3
 148 65.9 50.2 75.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.917 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

Tgt Ion: 75 Resp: 9082
 Ion Ratio Lower Upper
 75 100
 155 81.8 65.0 97.6
 157 100.8 84.3 126.5

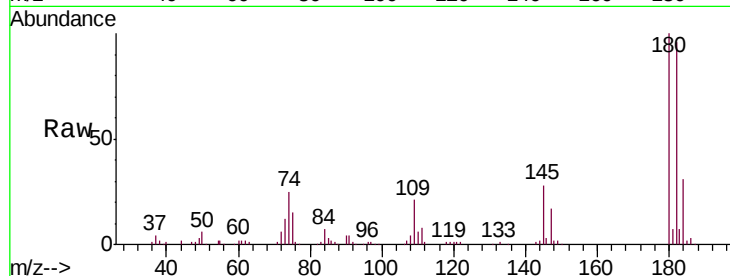




#67
 1,3,5-Trichlorobenzene
 Concen: 5.305 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00599

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.3	115.9
184	30.6	24.5	36.7
145	28.4	23.2	34.8



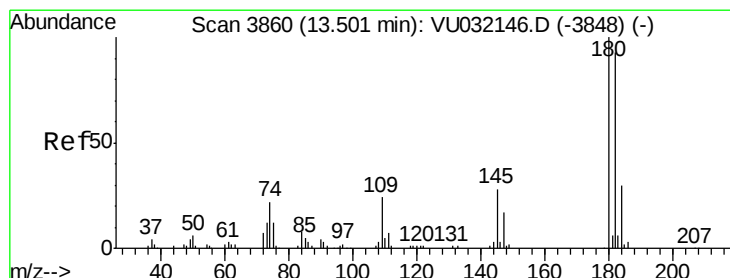
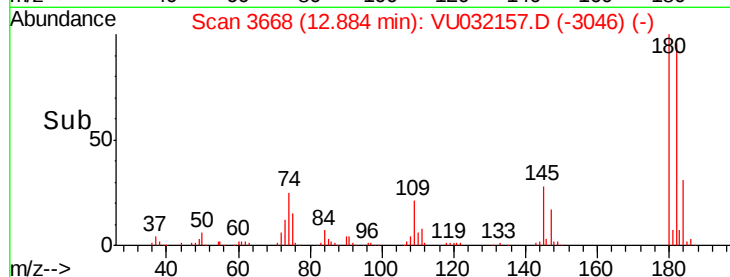
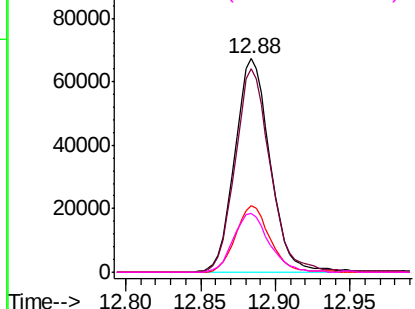
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

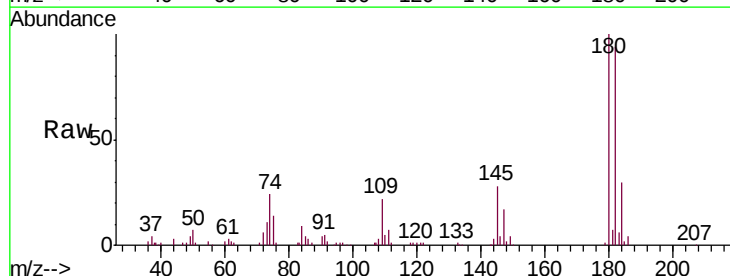
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.595 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU032157.D
 Acq: 20 May 2019 16:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	78.4	117.6
145	28.4	23.5	35.3

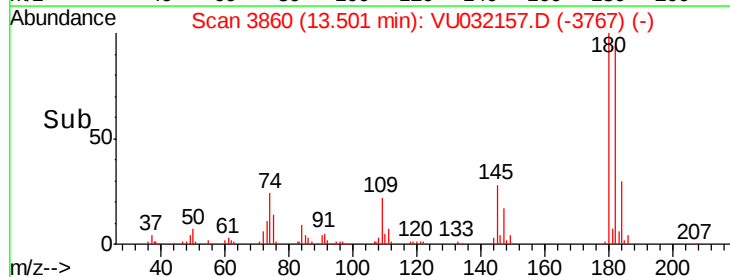
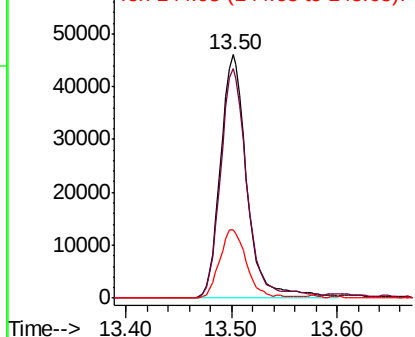


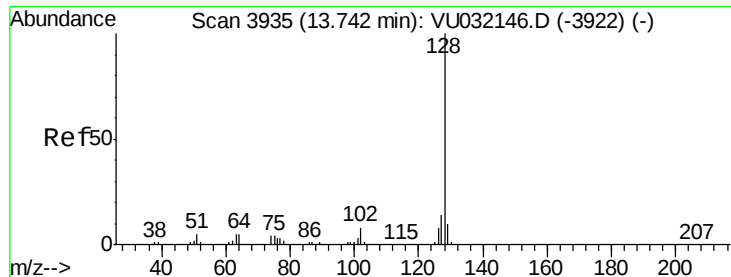
Abundance

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: 4.846 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00599

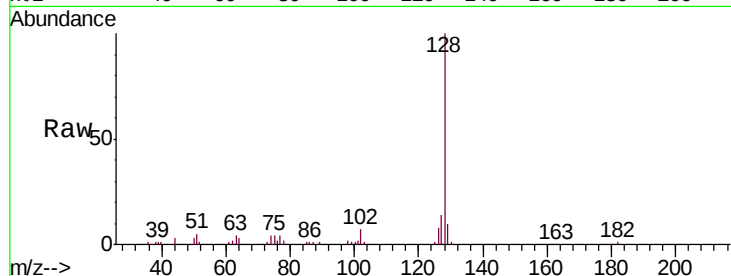
Tgt Ion:128 Resp: 108189

Ion Ratio Lower Upper

128 100

129 10.0 8.0 12.0

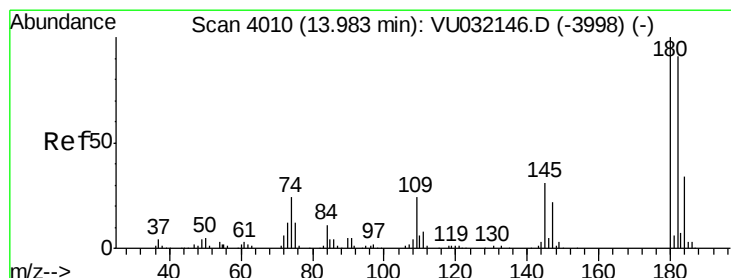
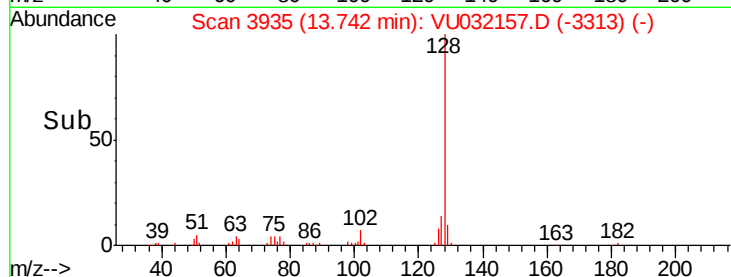
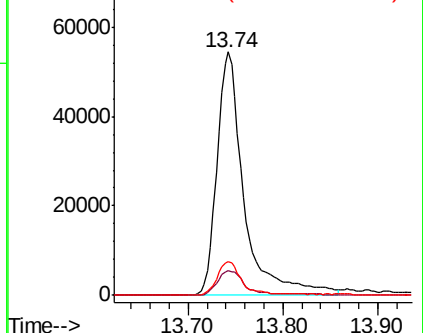
127 12.4 10.1 15.1



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: 5.281 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032157.D

Acq: 20 May 2019 16:06

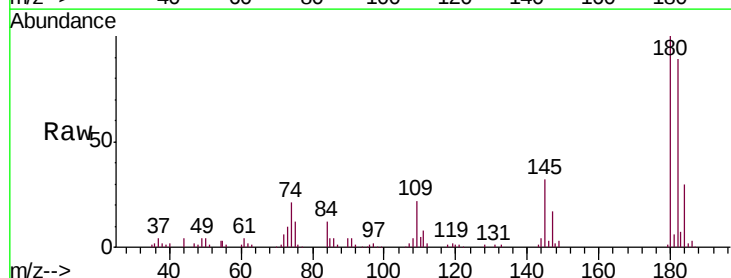
Tgt Ion:180 Resp: 76945

Ion Ratio Lower Upper

180 100

182 93.9 75.3 112.9

145 29.6 25.2 37.8



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

