

Data File : VU033578.D
Acq On : 02 Aug 2019 18:24
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Quant Time: Aug 03 00:44:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Aug 03 00:39:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	284296	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	283716	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	152849	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	76750	37.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	74.26%
7) Chloroethane-d5	1.67	69	75383	42.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.02%
11) 1,1-Dichloroethene-d2	2.26	63	157229	41.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.82%
21) 2-Butanone-d5	4.17	46	167748	122.53	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.53%
24) Chloroform-d	4.62	84	169238	48.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.70%
26) 1,2-Dichloroethane-d4	5.29	65	106527	48.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.10%
32) Benzene-d6	5.32	84	311323	44.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.54%
36) 1,2-Dichloropropane-d6	6.31	67	105807	47.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.98%
41) Toluene-d8	7.55	98	285205	43.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.54%
43) trans-1,3-Dichloropropene-	7.83	79	51156	46.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.54%
47) 2-Hexanone-d5	8.30	63	120830	115.43	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	115.43%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	177916	52.33	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.66%
64) 1,2-Dichlorobenzene-d4	11.84	152	127823	45.67	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.34%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	139395	51.994 ug/L	98
3) Chloromethane	1.32	50	143724	53.221 ug/L	99
5) Vinyl chloride	1.39	62	151941	52.485 ug/L	99
6) Bromomethane	1.62	94	91070	35.654 ug/L	97
8) Chloroethane	1.69	64	98777	56.152 ug/L	96
9) Trichlorofluoromethane	1.87	101	216079	57.059 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	101693	52.970 ug/L	99
12) 1,1-Dichloroethene	2.27	96	95174	51.695 ug/L	91
13) Acetone	2.33	43	141399	100.952 ug/L	100
14) Carbon disulfide	2.46	76	278543	48.237 ug/L	100
15) Methyl Acetate	2.61	43	132794	59.551 ug/L	99
16) Methylene chloride	2.68	84	114738	54.561 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	100671	52.192 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	325264	55.298 ug/L	98
19) 1,1-Dichloroethane	3.42	63	200679	55.428 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	116469	53.796 ug/L	98
22) 2-Butanone	4.25	43	199183	119.119 ug/L	99

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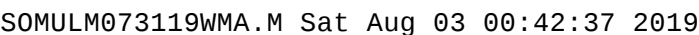
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

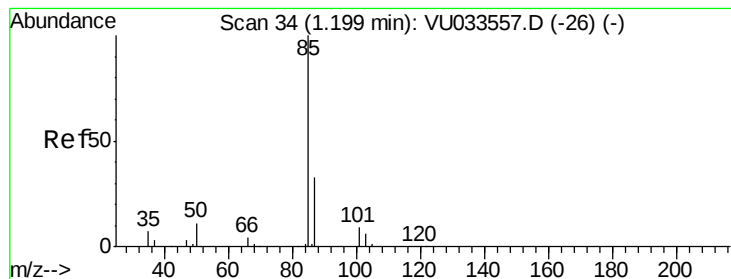
Quant Time: Aug 03 00:44:46 2019
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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	60803	53.826	ug/L	99
25) Chloroform	4.65	83	209139	54.891	ug/L	98
27) 1,2-Dichloroethane	5.38	62	164013	55.905	ug/L	100
29) Cyclohexane	4.97	56	162202	52.413	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	172367	52.800	ug/L	99
31) Carbon tetrachloride	5.11	117	152351	53.590	ug/L	100
33) Benzene	5.37	78	443047	54.131	ug/L	100
34) Trichloroethene	6.16	95	113488	52.565	ug/L	99
35) Methylcyclohexane	6.40	83	176230	52.308	ug/L	99
37) 1,2-Dichloropropane	6.41	63	122499	55.914	ug/L	100
38) Bromodichloromethane	6.74	83	154897	54.692	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	175987	51.466	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	355650	117.577	ug/L	99
42) Toluene	7.62	91	482184	54.788	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	164509	53.235	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	115410	55.489	ug/L	99
46) Tetrachloroethene	8.21	164	90535	51.363	ug/L	99
48) 2-Hexanone	8.35	43	288247	117.893	ug/L	100
49) Dibromochloromethane	8.46	129	127766	53.994	ug/L	100
50) 1,2-Dibromoethane	8.57	107	125349	54.409	ug/L	100
51) Chlorobenzene	9.10	112	303826	52.730	ug/L	99
52) Ethylbenzene	9.23	91	510585	53.876	ug/L	99
53) m,p-Xylene	9.36	106	195799	53.818	ug/L	97
54) o-xylene	9.76	106	193764	54.903	ug/L	99
55) Styrene	9.77	104	336913	56.208	ug/L	99
56) Isopropylbenzene	10.15	105	501096	54.341	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	206695	55.100	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	161683	55.911	ug/L	99
61) Bromoform	9.94	173	98569	53.386	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	245402	52.278	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	250856	51.438	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	250655	52.810	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	48705	55.541	ug/L	93
67) 1,3,5-Trichlorobenzene	12.87	180	186104	49.142	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	161506	49.910	ug/L	98
69) Naphthalene	13.73	128	503380	54.219	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	172923	50.812	ug/L	98

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

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#2

Dichlorodifluoromethane

Concen: 51.994 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

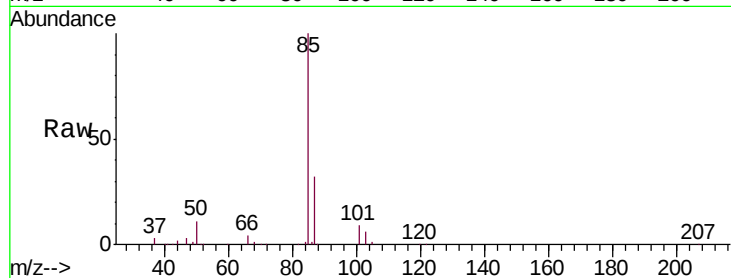
VSTD05047

Tgt Ion: 85 Resp: 139395

Ion Ratio Lower Upper

85 100

87 32.8 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033557.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033557.D (-26) (-)

1.20

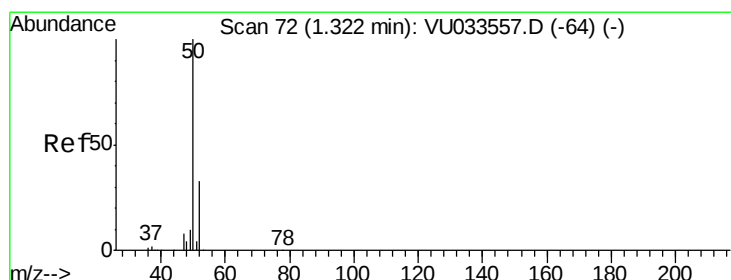
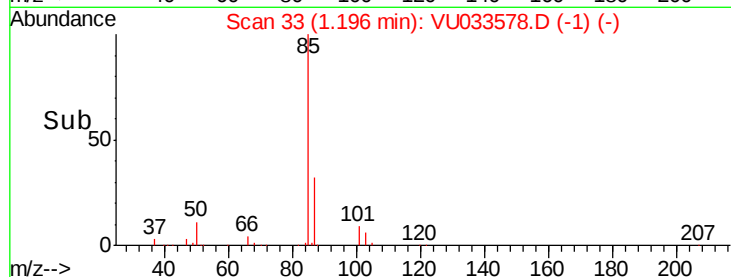
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 53.221 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033578.D

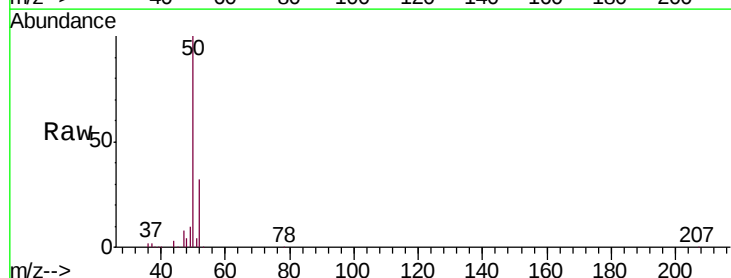
Acq: 02 Aug 2019 18:24

Tgt Ion: 50 Resp: 143724

Ion Ratio Lower Upper

50 100

52 32.3 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033557.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033557.D (-64) (-)

1.32

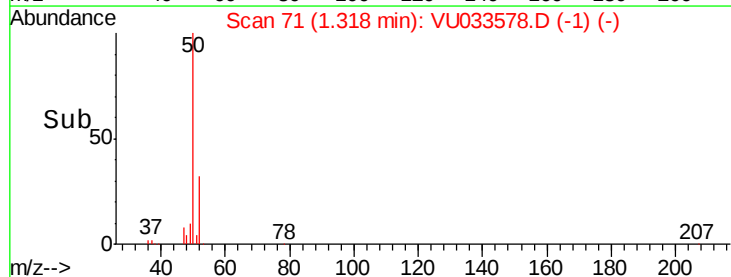
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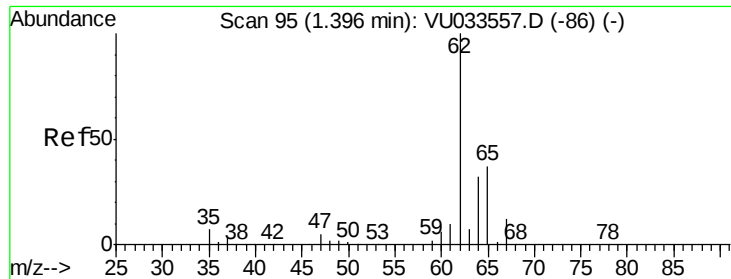
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50000

0

Time-->





#5

Vinyl chloride

Concen: 52.485 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

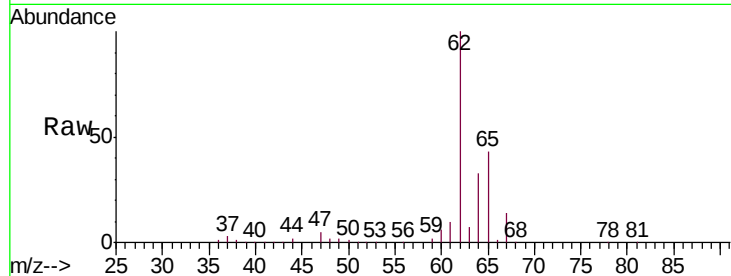
VSTD05047

Tgt Ion: 62 Resp: 151941

Ion Ratio Lower Upper

62 100

64 33.1 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU033557.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033557.D (-86) (-)

1.39

150000

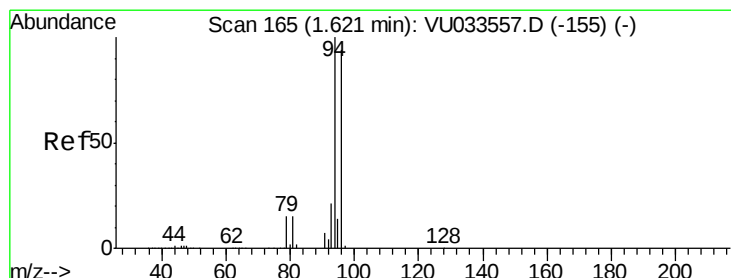
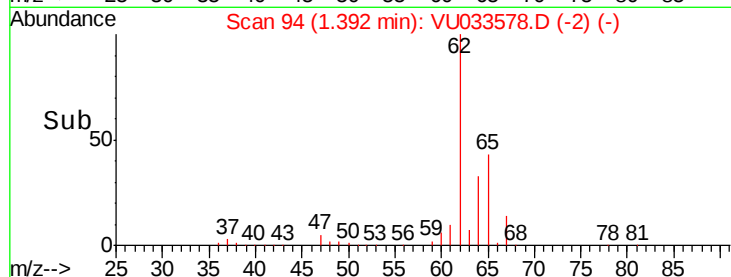
100000

50000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 35.654 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033578.D

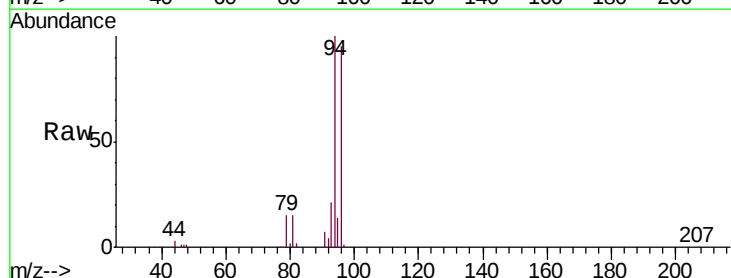
Acq: 02 Aug 2019 18:24

Tgt Ion: 94 Resp: 91070

Ion Ratio Lower Upper

94 100

96 95.0 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033557.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033557.D (-155) (-)

1.62

80000

60000

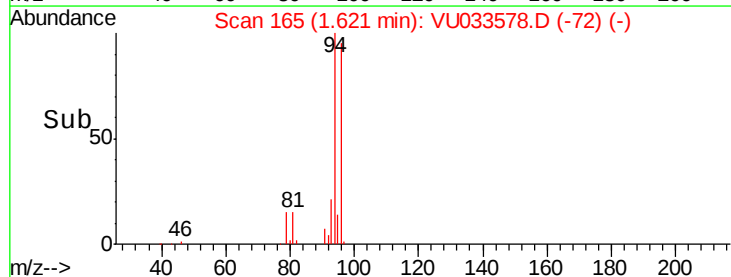
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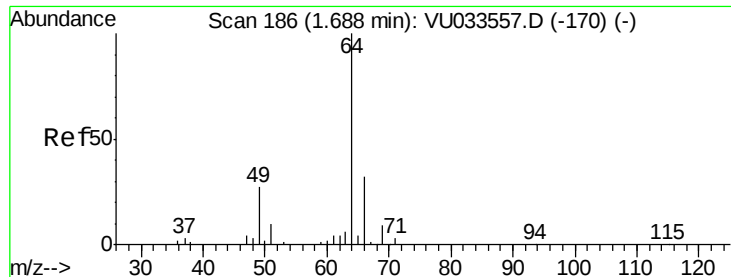
20000

0

1.55 1.60 1.65 1.70

Time-->

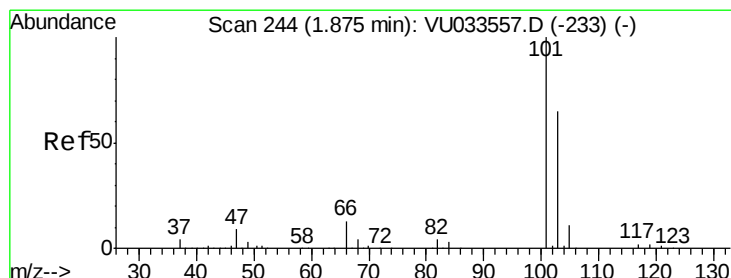
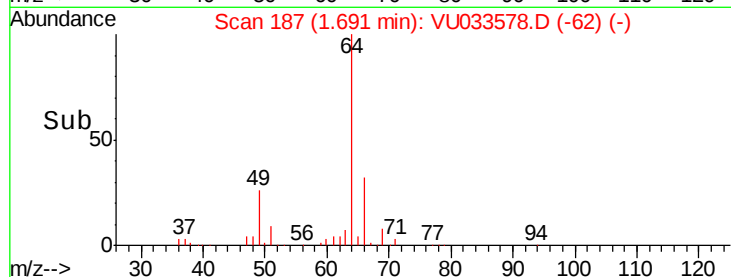
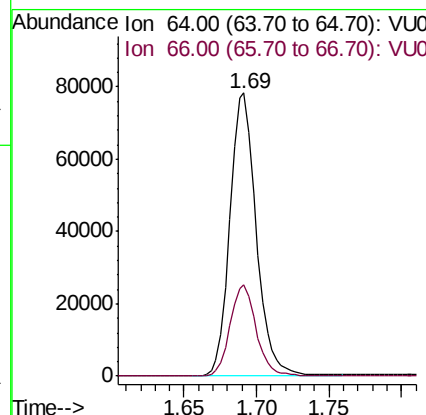
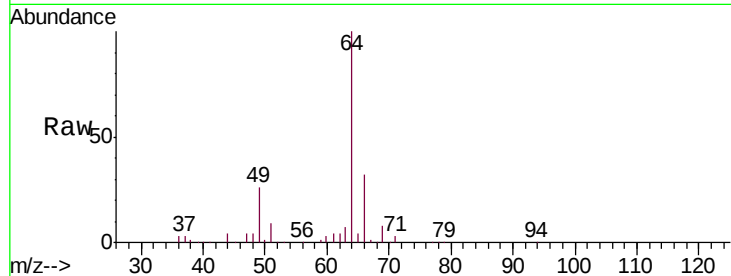




#8
Chloroethane
Concen: 56.152 ug/L
RT: 1.69 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

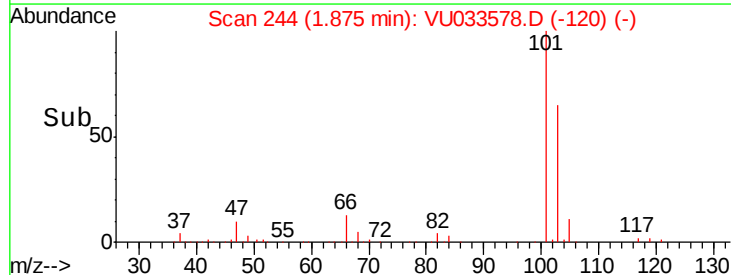
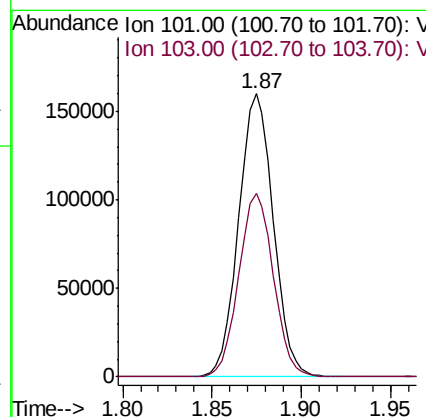
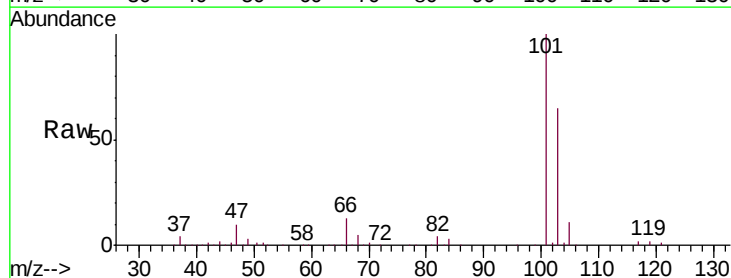
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

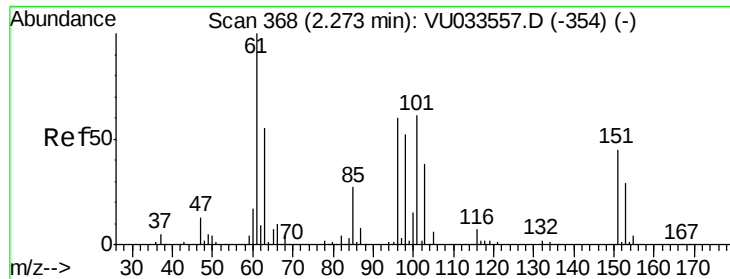
Tgt Ion: 64 Resp: 98777
Ion Ratio Lower Upper
64 100
66 32.3 21.1 39.3



#9
Trichlorofluoromethane
Concen: 57.059 ug/L
RT: 1.87 min Scan# 244
Delta R.T. -0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

Tgt Ion: 101 Resp: 216079
Ion Ratio Lower Upper
101 100
103 64.7 51.6 77.4





#10

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

Concen: 52.970 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

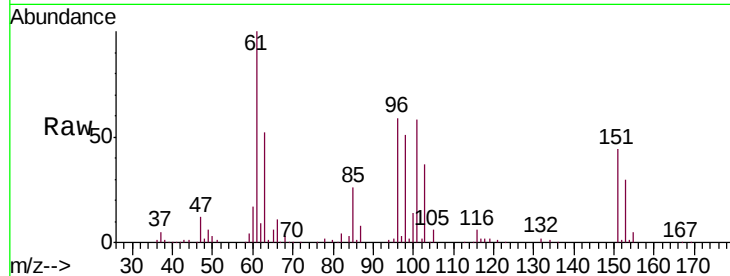
Tgt Ion: 101 Resp: 101693

Ion Ratio Lower Upper

101 100

85 44.3 35.8 53.8

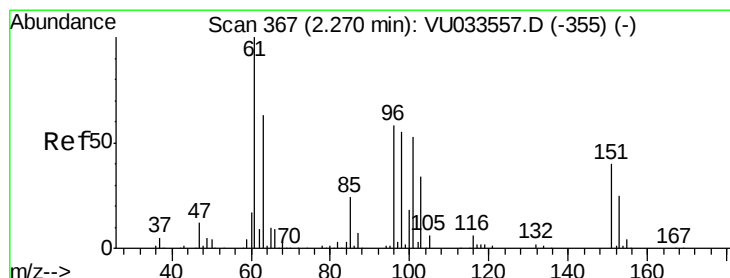
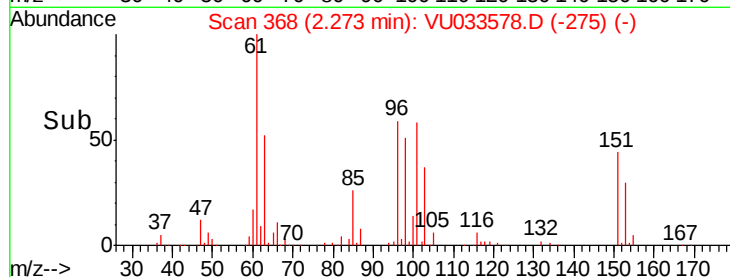
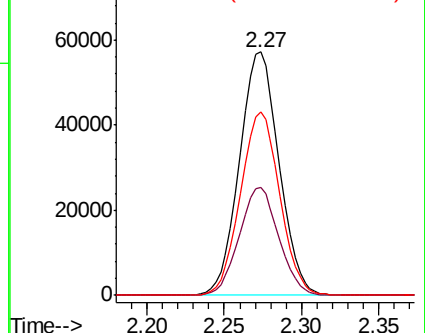
151 74.8 60.1 90.1



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: 51.695 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

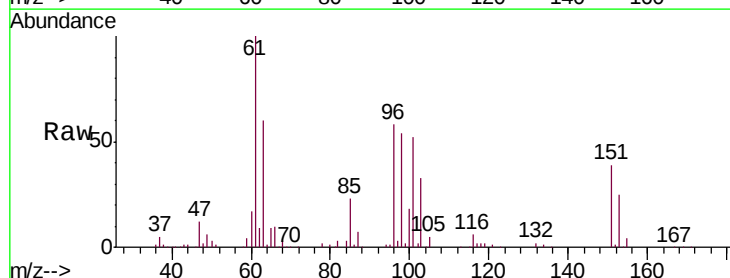
Tgt Ion: 96 Resp: 95174

Ion Ratio Lower Upper

96 100

61 173.1 119.3 221.5

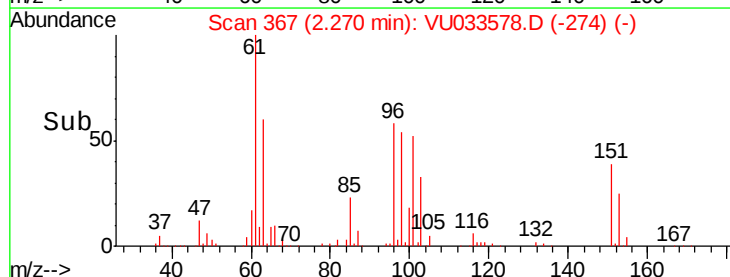
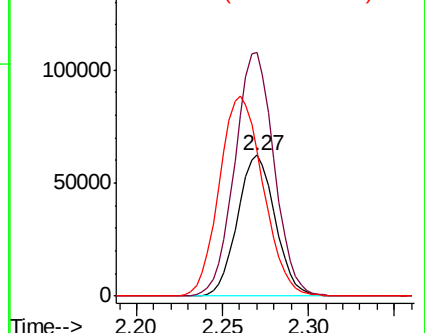
63 103.4 86.6 160.8

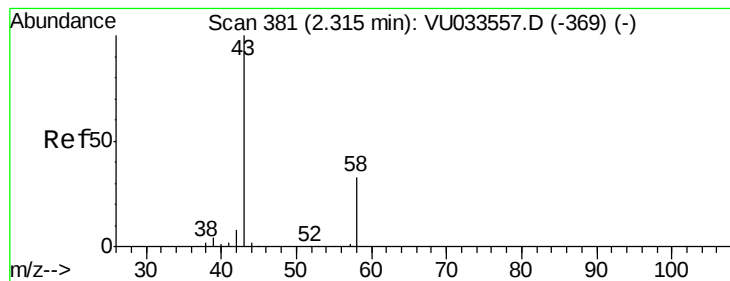


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 100.952 ug/L

RT: 2.33 min Scan# 387

Delta R.T. 0.02 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

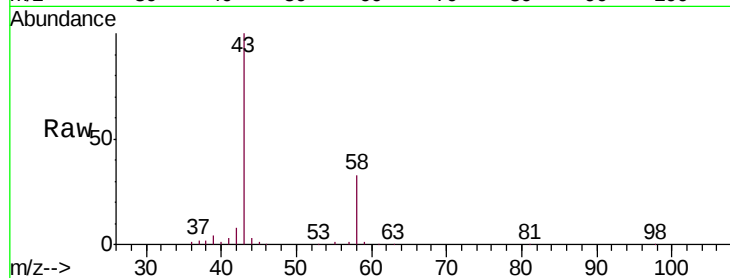
VSTD05047

Tgt Ion: 43 Resp: 141399

Ion Ratio Lower Upper

43 100

58 32.9 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU033557.D (-369) (-)

Ion 58.00 (57.70 to 58.70): VU033557.D (-369) (-)

2.33

50000

40000

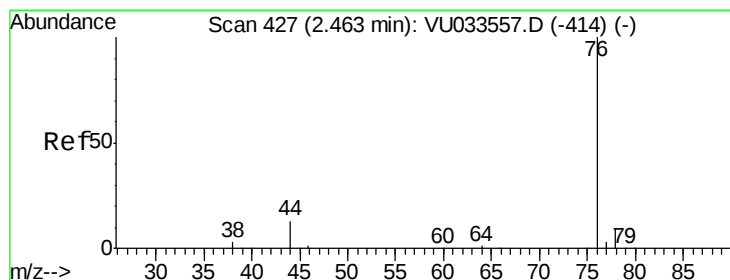
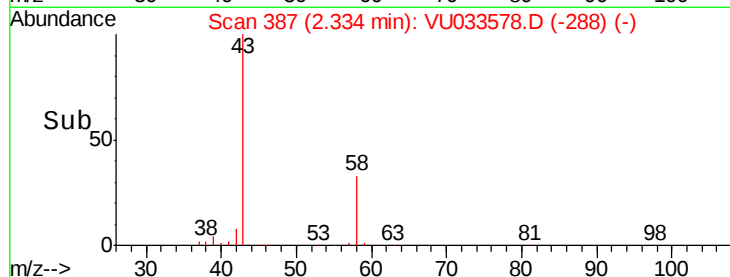
30000

20000

10000

0

Time-->



#14

Carbon disulfide

Concen: 48.237 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033578.D

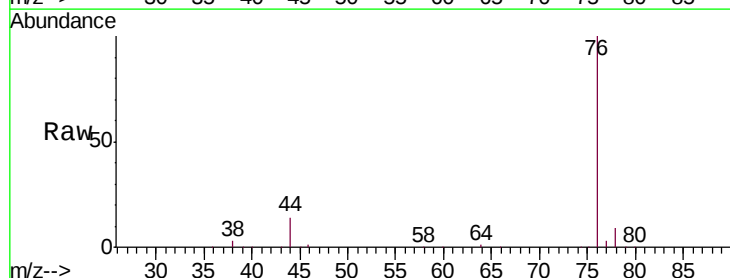
Acq: 02 Aug 2019 18:24

Tgt Ion: 76 Resp: 278543

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033557.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033557.D (-414) (-)

2.46

200000

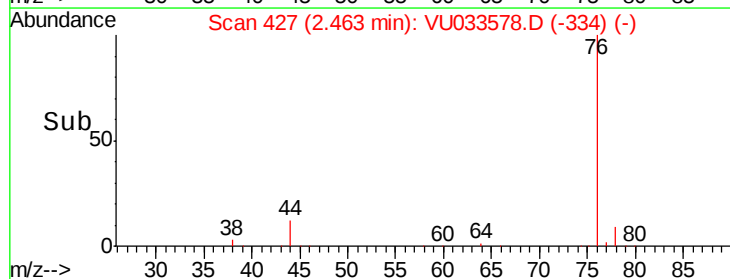
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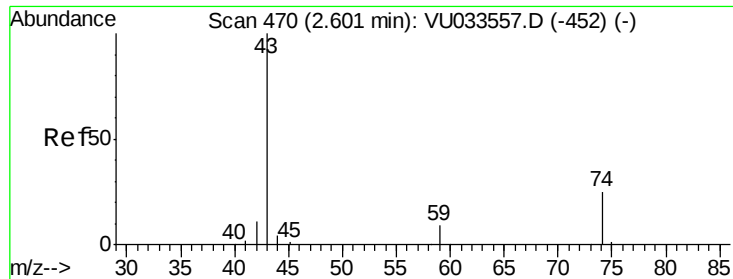
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50000

0

Time-->

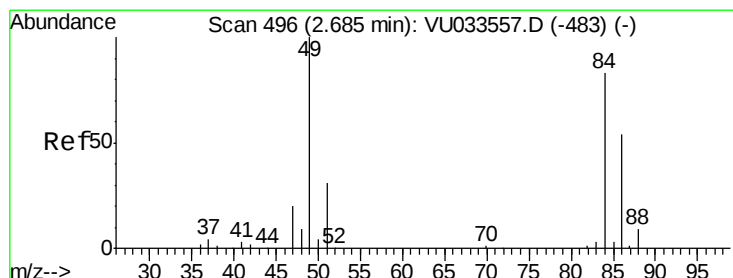
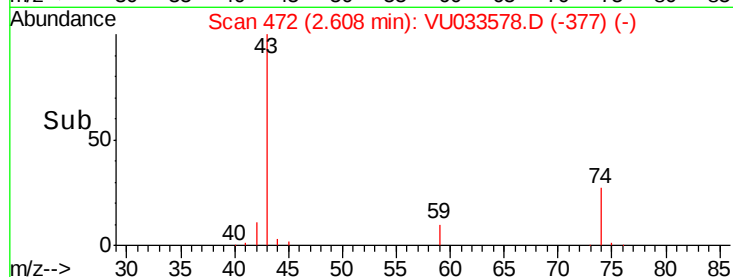
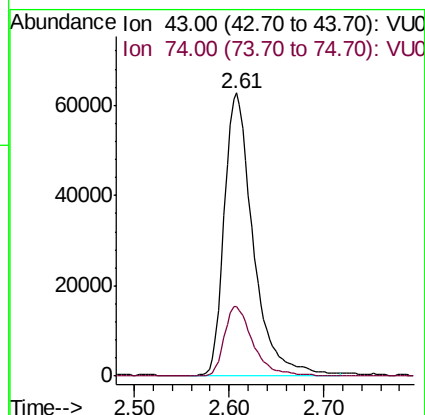
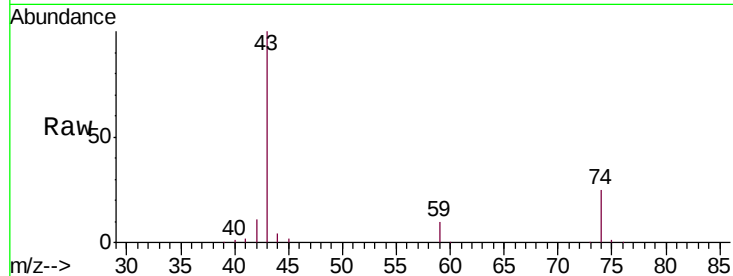




#15
Methyl Acetate
Concen: 59.551 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

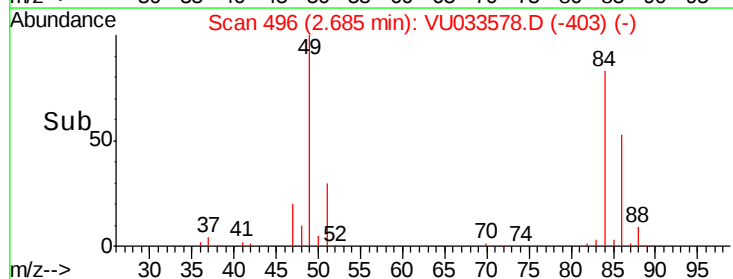
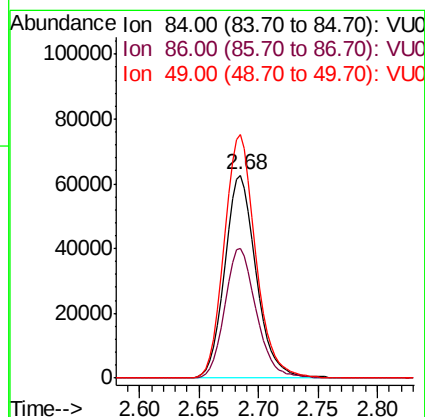
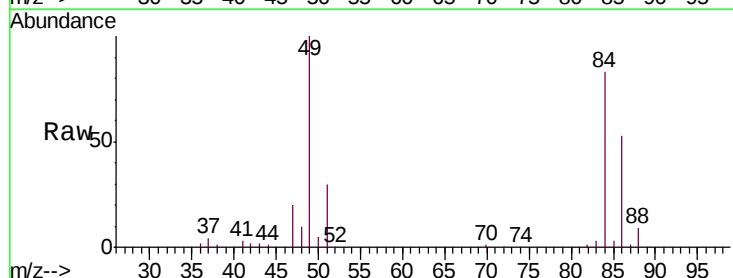
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

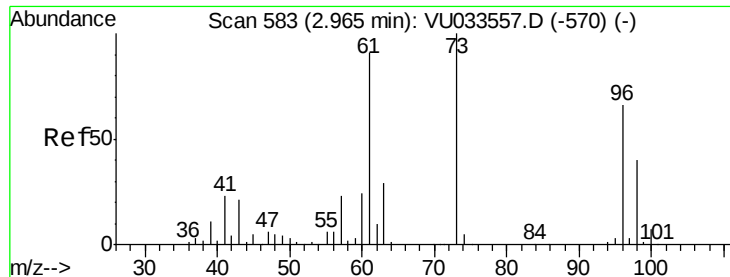
Tgt Ion: 43 Resp: 132794
Ion Ratio Lower Upper
43 100
74 24.7 20.1 30.1



#16
Methylene chloride
Concen: 54.561 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

Tgt Ion: 84 Resp: 114738
Ion Ratio Lower Upper
84 100
86 64.1 45.7 84.9
49 120.0 85.0 158.0





#17

trans-1,2-Dichloroethene

Concen: 52.192 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

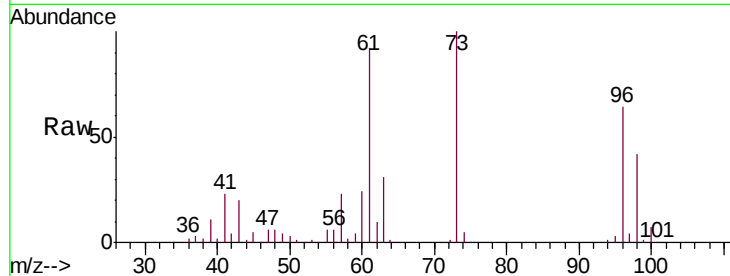
Tgt Ion: 96 Resp: 100671

Ion Ratio Lower Upper

96 100

61 143.2 98.3 182.5

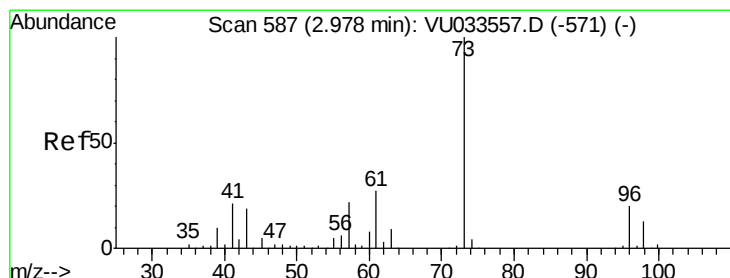
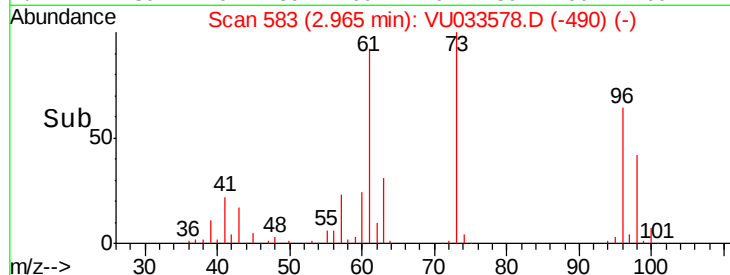
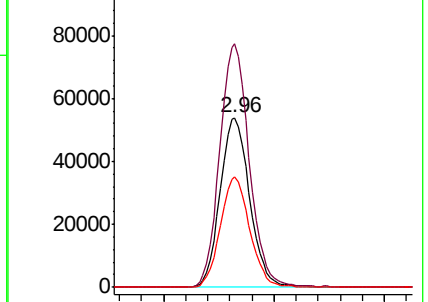
98 65.3 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU033557.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033557.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033557.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 55.298 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

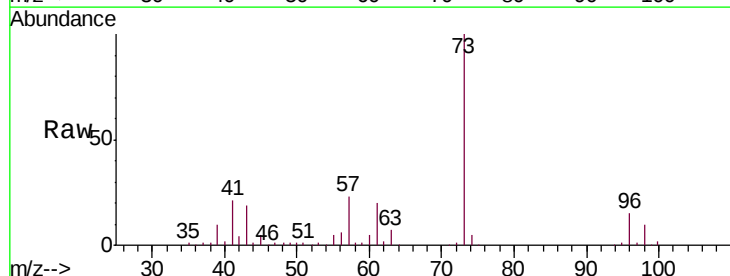
Tgt Ion: 73 Resp: 325264

Ion Ratio Lower Upper

73 100

43 20.1 15.4 23.2

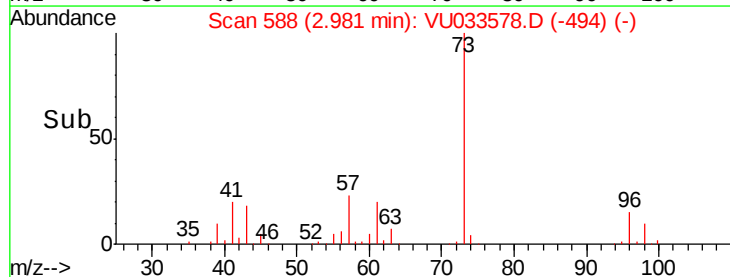
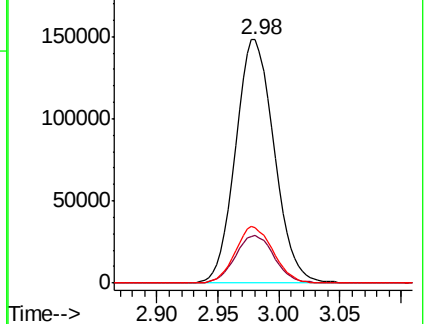
57 22.9 17.4 26.2

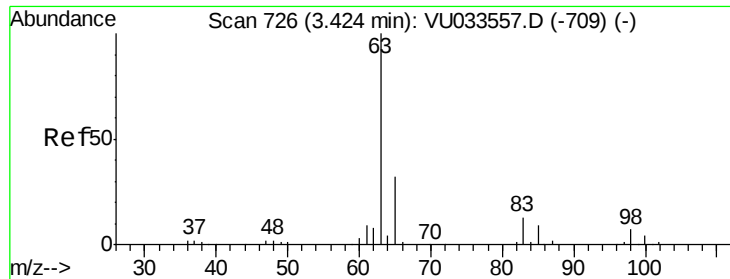


Abundance Ion 73.00 (72.70 to 73.70): VU033557.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033557.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033557.D (-571) (-)

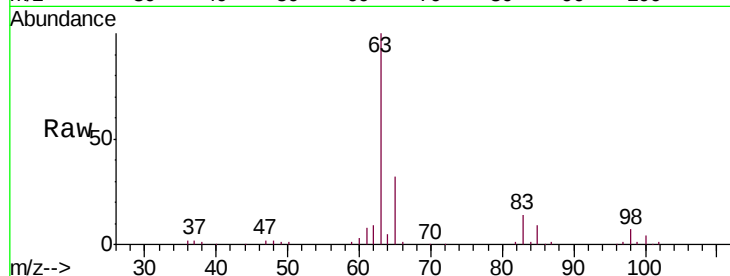




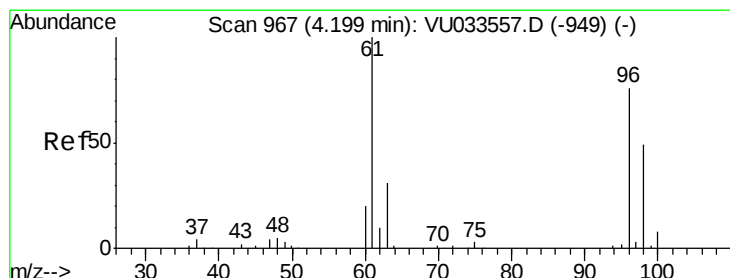
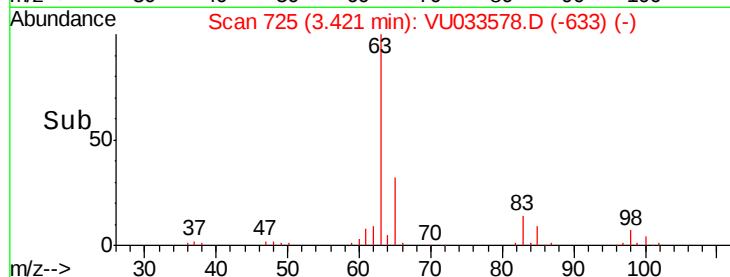
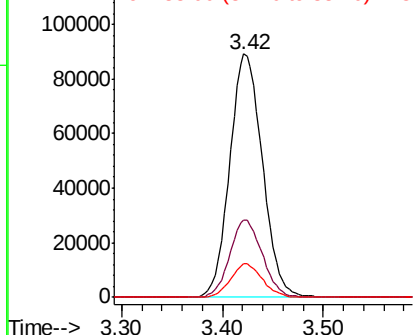
#19
 1,1-Dichloroethane
 Concen: 55.428 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion: 63 Resp: 200679
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.0 40.8
 83 13.8 9.5 17.7

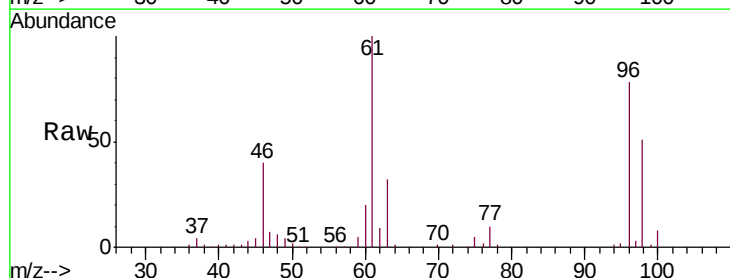


Abundance Ion 63.00 (62.70 to 63.70): VU0
 120000 Ion 65.00 (64.70 to 65.70): VU0
 100000 Ion 83.00 (82.70 to 83.70): VU0

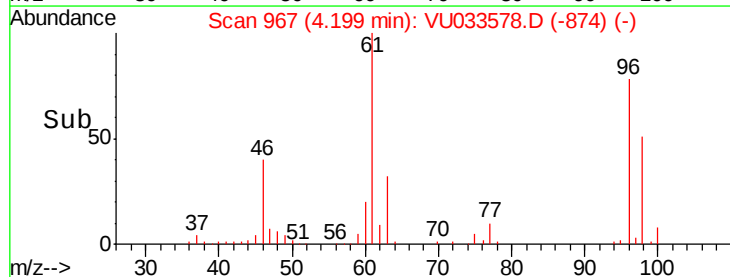
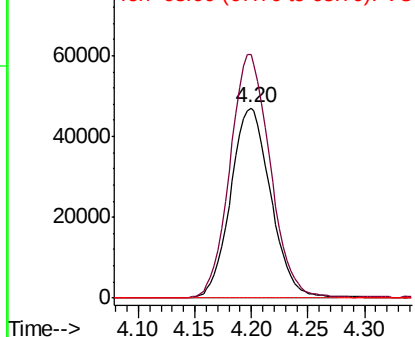


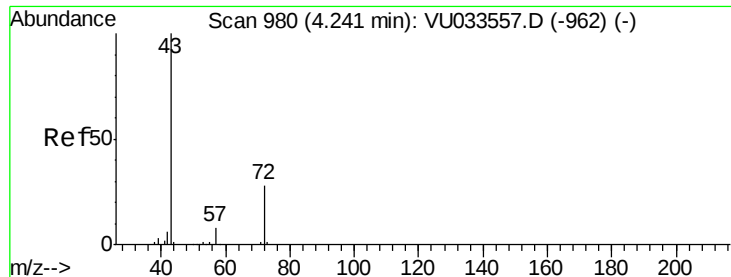
#20
 cis-1,2-Dichloroethene
 Concen: 53.796 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Tgt Ion: 96 Resp: 116469
 Ion Ratio Lower Upper
 96 100
 61 127.7 91.3 169.6
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 80000 Ion 61.00 (60.70 to 61.70): VU0
 60000 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 119.119 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.01 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

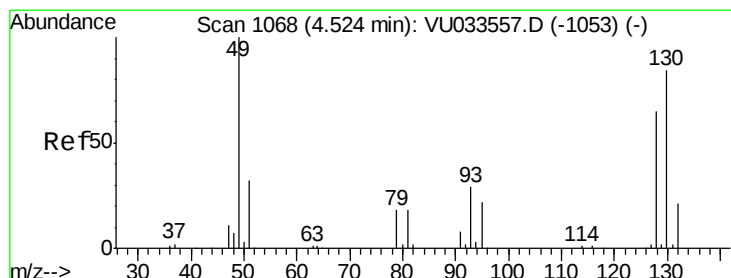
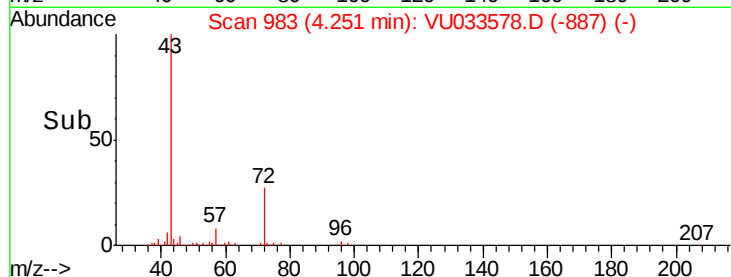
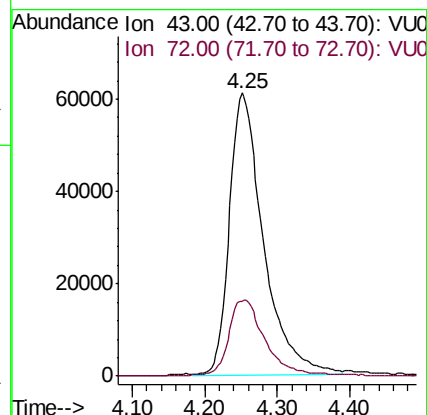
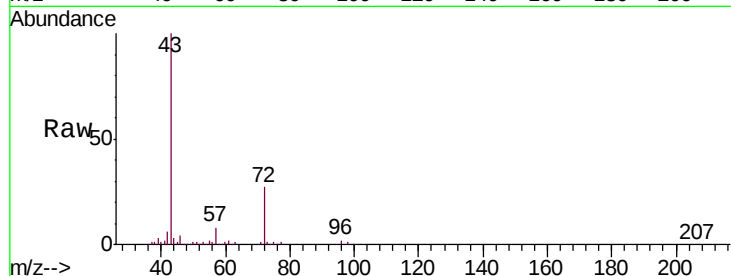
VSTD05047

Tgt Ion: 43 Resp: 199183

Ion Ratio Lower Upper

43 100

72 28.8 14.2 42.6



#23

Bromochloromethane

Concen: 53.826 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Tgt Ion: 128 Resp: 60803

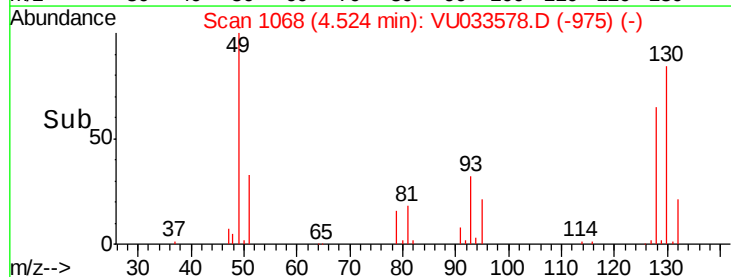
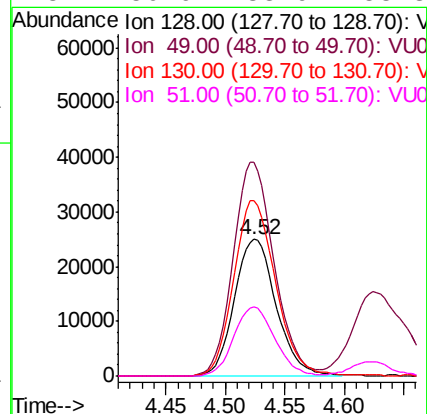
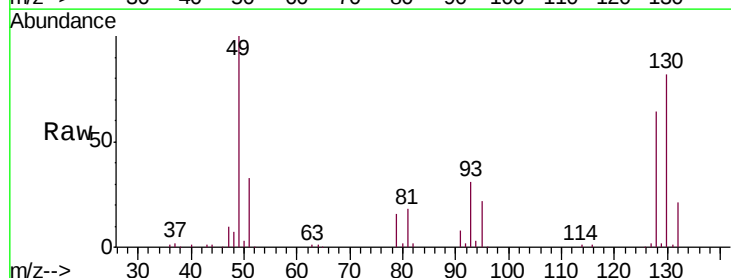
Ion Ratio Lower Upper

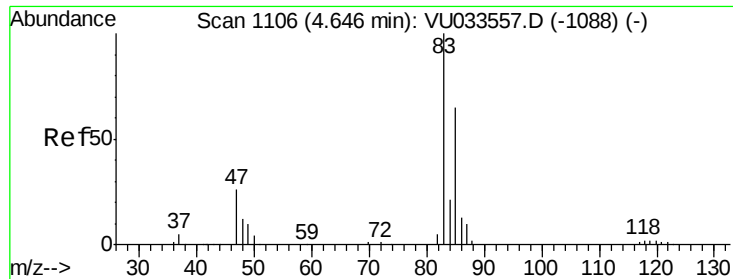
128 100

49 156.1 108.4 201.2

130 128.7 89.7 166.5

51 50.9 38.9 58.3

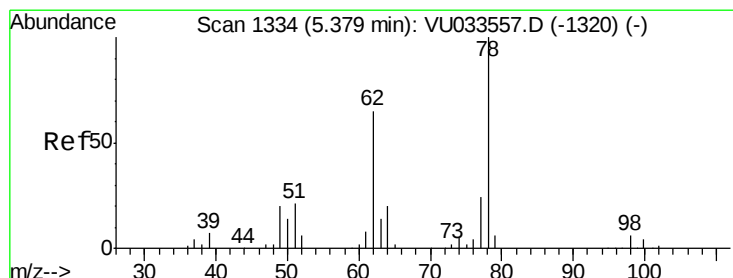
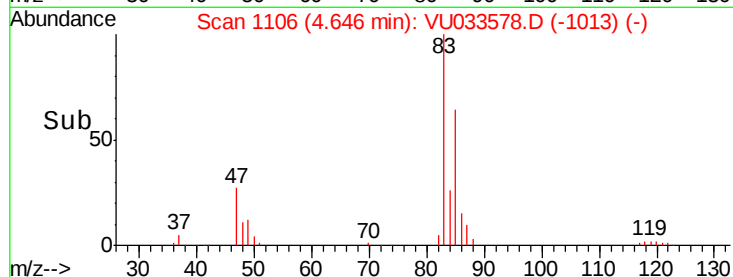
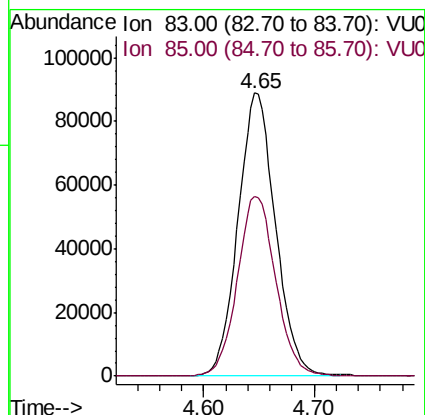
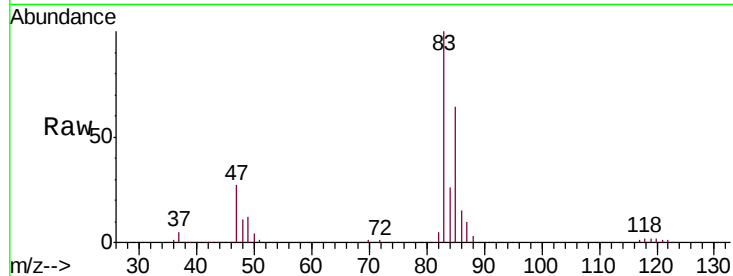




#25
Chloroform
Concen: 54.891 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

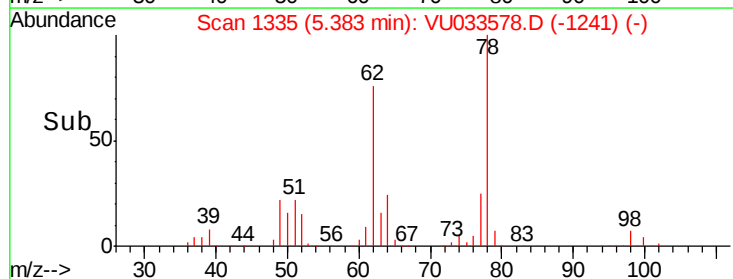
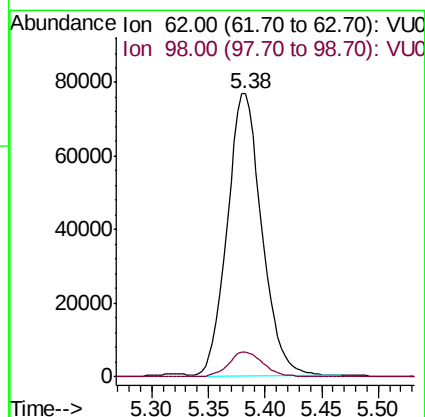
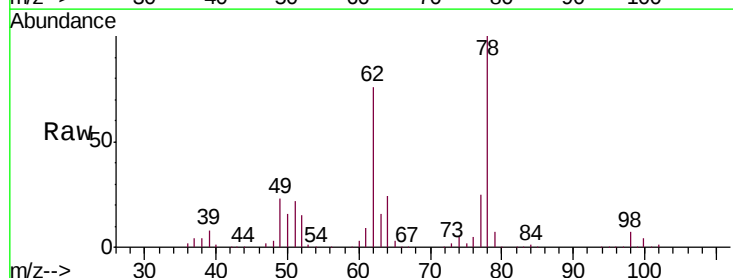
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

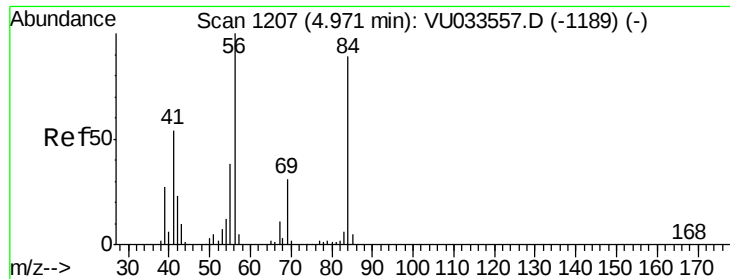
Tgt Ion: 83 Resp: 209139
Ion Ratio Lower Upper
83 100
85 63.7 45.6 84.8



#27
1,2-Dichloroethane
Concen: 55.905 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

Tgt Ion: 62 Resp: 164013
Ion Ratio Lower Upper
62 100
98 8.9 7.2 10.8

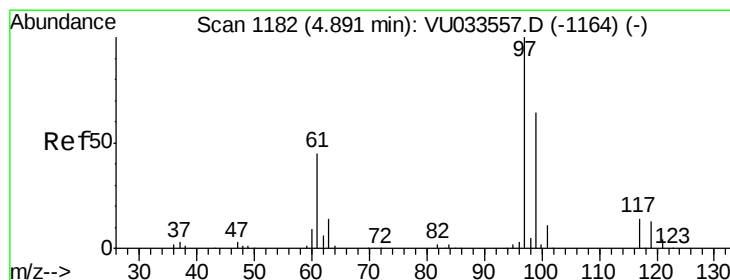
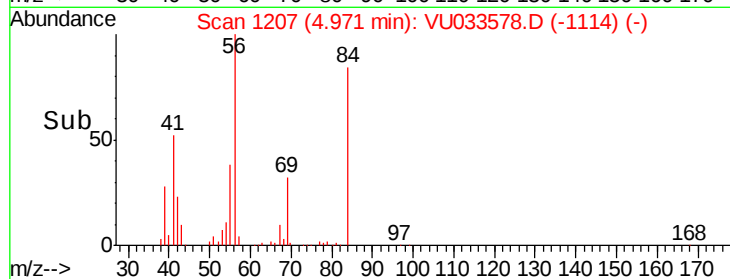
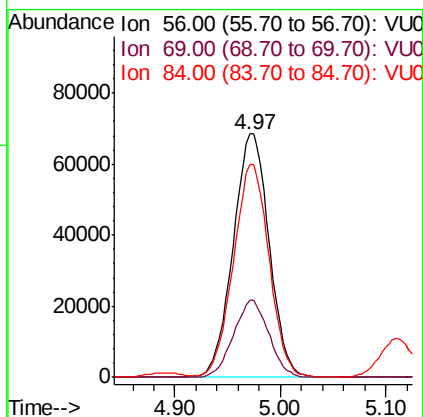
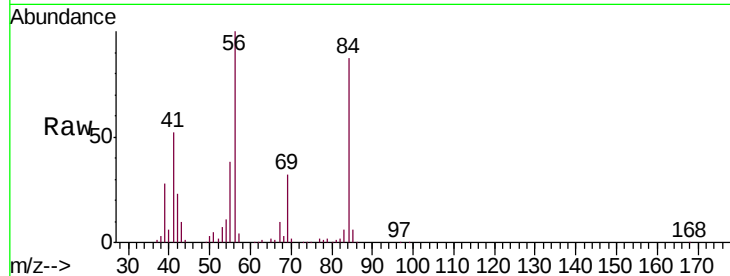




#29
Cyclohexane
Concen: 52.413 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

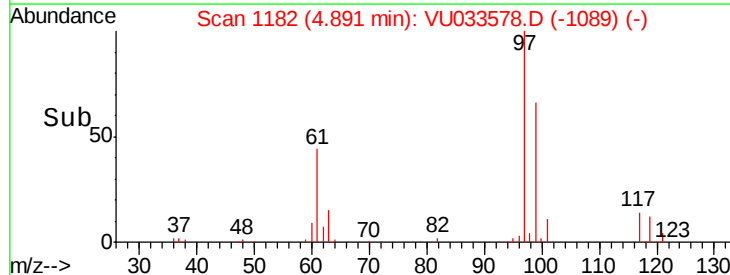
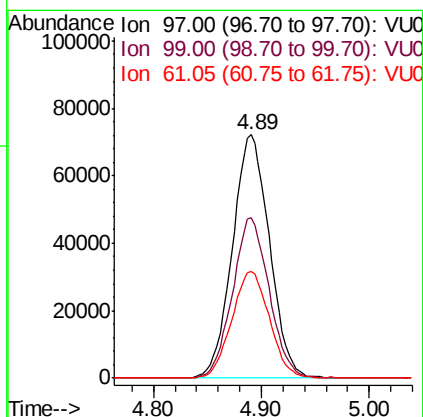
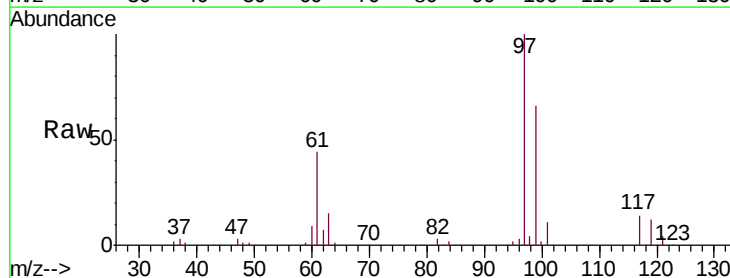
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

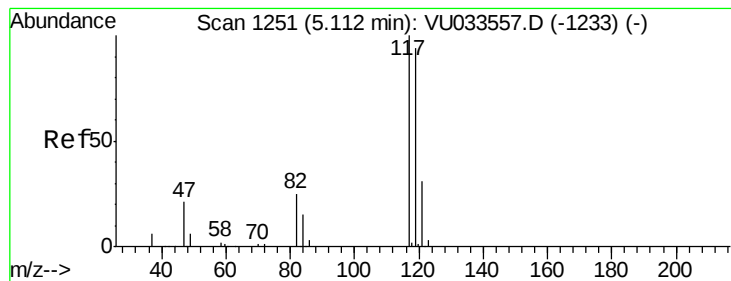
Tgt Ion: 56 Resp: 162202
Ion Ratio Lower Upper
56 100
69 31.0 25.0 37.6
84 86.7 71.6 107.4



#30
1,1,1-Trichloroethane
Concen: 52.800 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

Tgt Ion: 97 Resp: 172367
Ion Ratio Lower Upper
97 100
99 65.2 51.1 76.7
61 44.6 35.5 53.3





#31

Carbon tetrachloride

Concen: 53.590 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

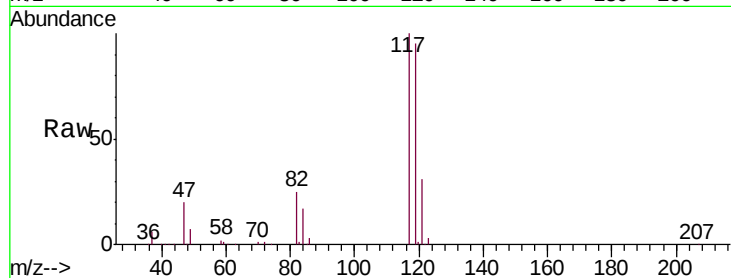
VSTD05047

Tgt Ion:117 Resp: 152351

Ion Ratio Lower Upper

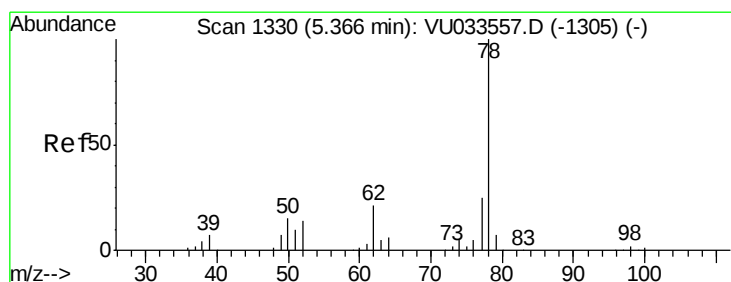
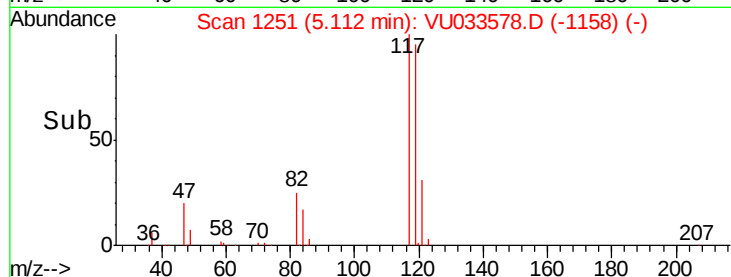
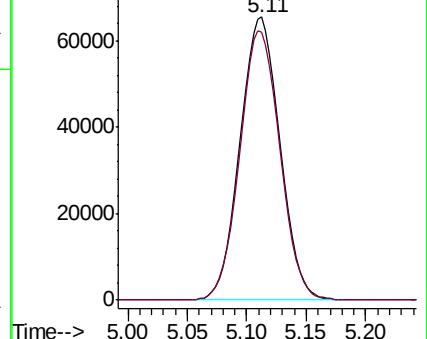
117 100

119 95.8 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 54.131 ug/L

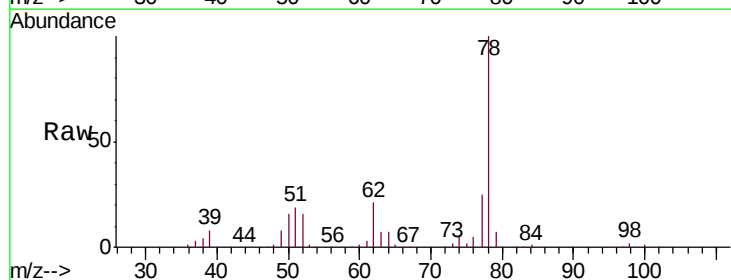
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

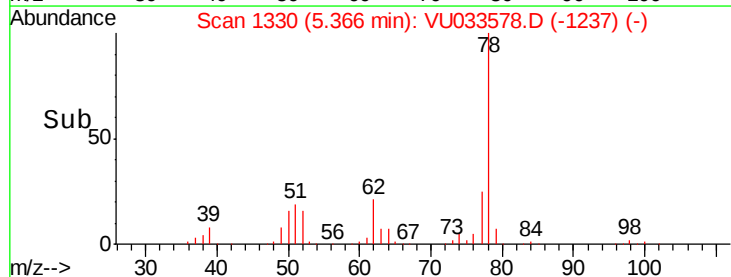
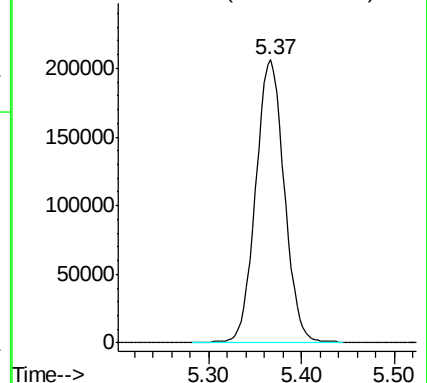
Lab File: VU033578.D

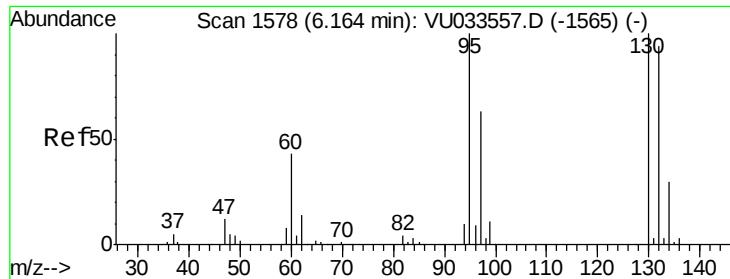
Acq: 02 Aug 2019 18:24

Tgt Ion: 78 Resp: 443047



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 52.565 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

Tgt Ion: 95 Resp: 113488

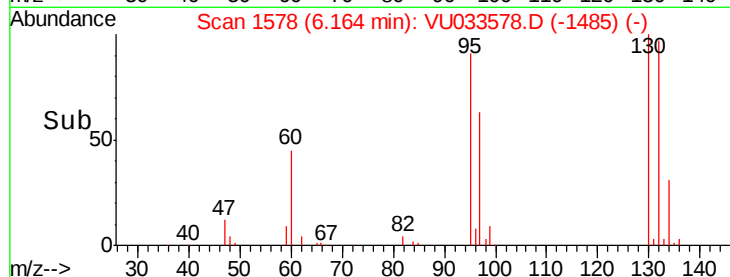
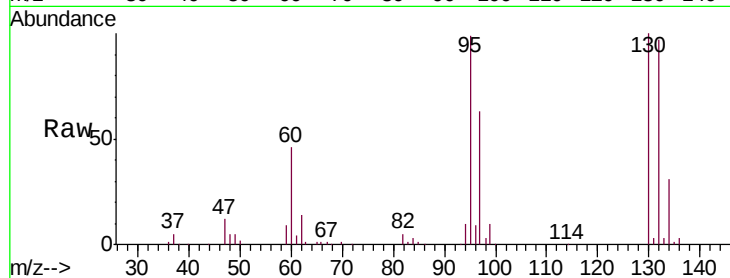
Ion Ratio Lower Upper

95 100

97 64.1 44.7 83.1

132 97.6 66.8 124.0

130 101.1 71.6 133.0

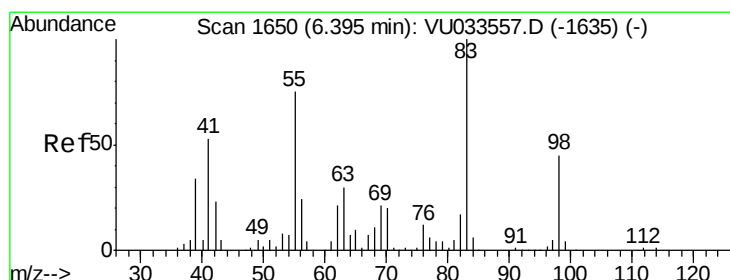
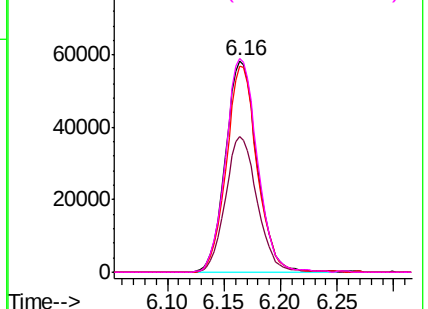


Abundance Ion 95.00 (94.70 to 95.70): VU033578.D (-1485) (-)

Ion 97.00 (96.70 to 97.70): VU033578.D (-1485) (-)

Ion 132.00 (131.70 to 132.70): VU033578.D (-1485) (-)

Ion 130.00 (129.70 to 130.70): VU033578.D (-1485) (-)



#35

Methylcyclohexane

Concen: 52.308 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

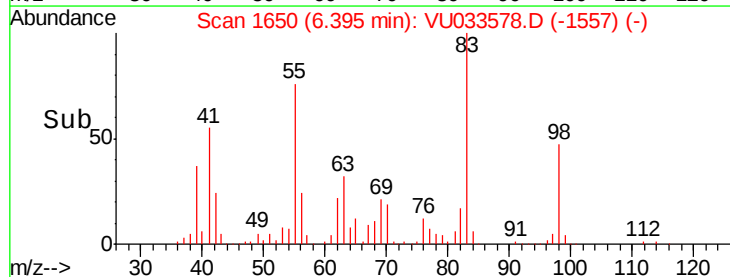
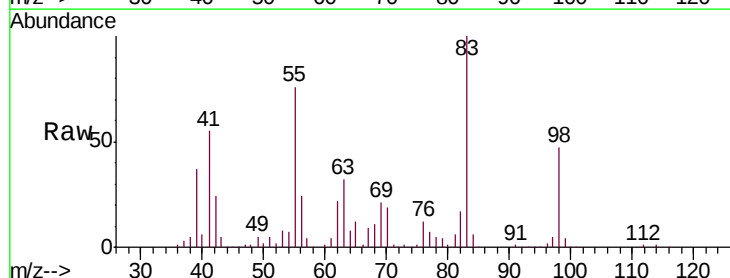
Tgt Ion: 83 Resp: 176230

Ion Ratio Lower Upper

83 100

55 75.9 60.2 90.4

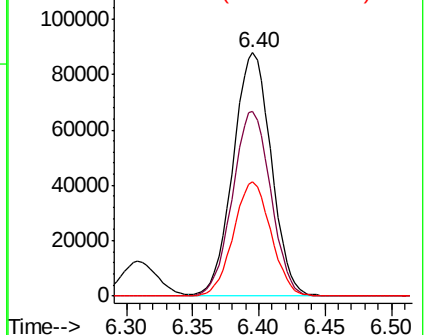
98 46.0 36.5 54.7

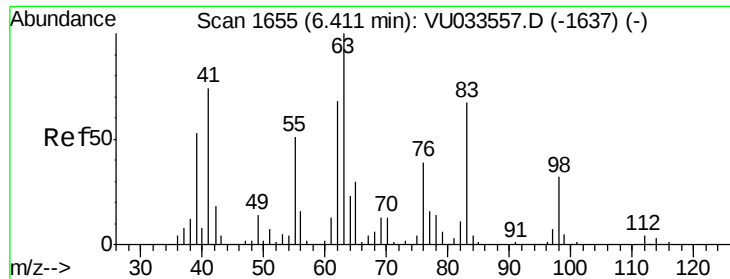


Abundance Ion 83.00 (82.70 to 83.70): VU033578.D (-1557) (-)

Ion 55.00 (54.70 to 55.70): VU033578.D (-1557) (-)

Ion 98.00 (97.70 to 98.70): VU033578.D (-1557) (-)

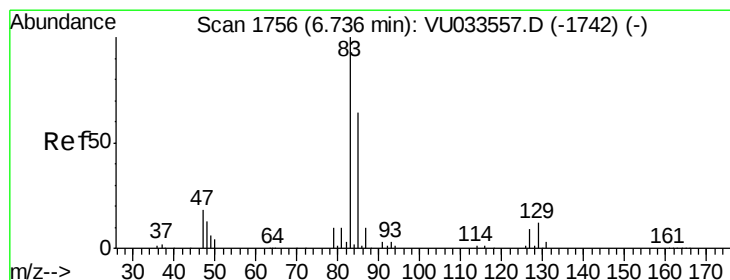
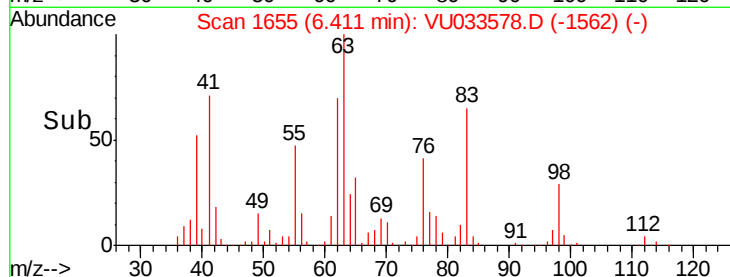
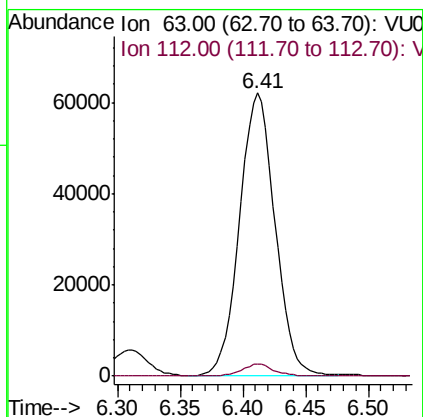
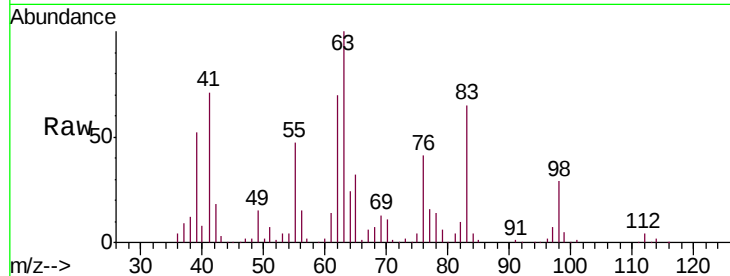




#37
 1,2-Dichloropropane
 Concen: 55.914 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

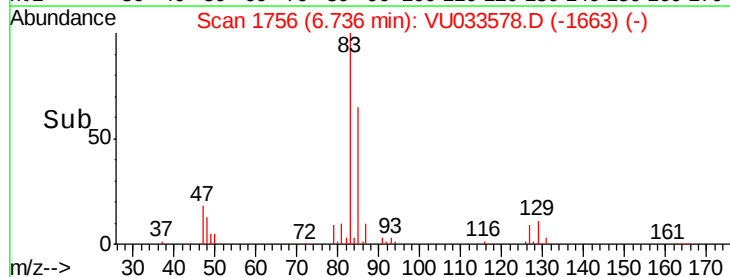
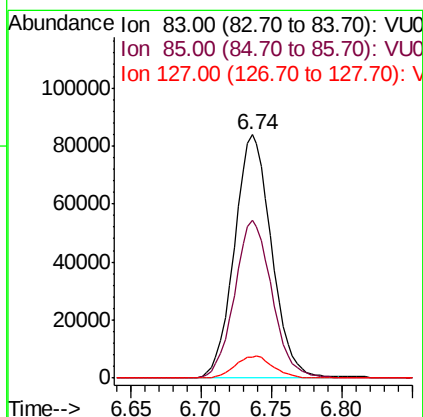
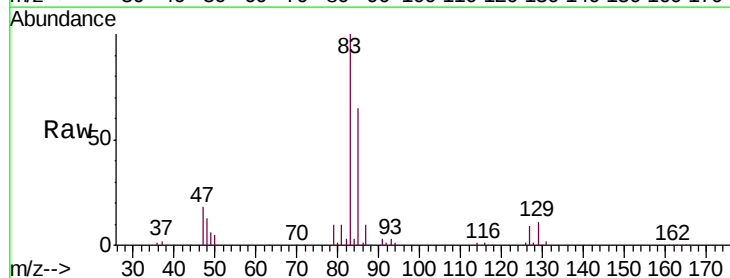
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

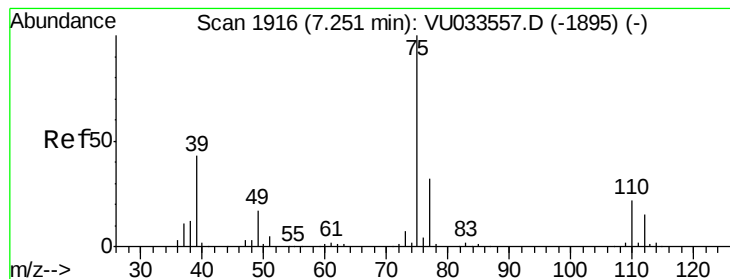
Tgt Ion: 63 Resp: 122499
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.0 4.6



#38
 Bromodichloromethane
 Concen: 54.692 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Tgt Ion: 83 Resp: 154897
 Ion Ratio Lower Upper
 83 100
 85 64.7 45.1 83.9
 127 8.8 7.2 10.8



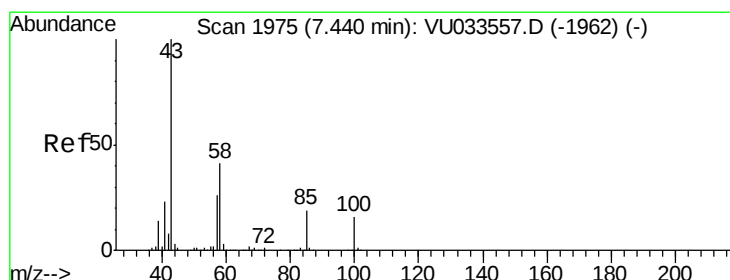
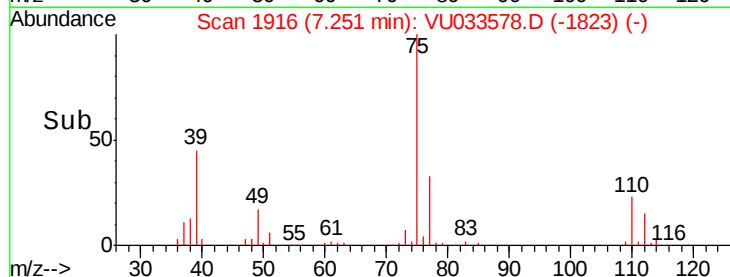
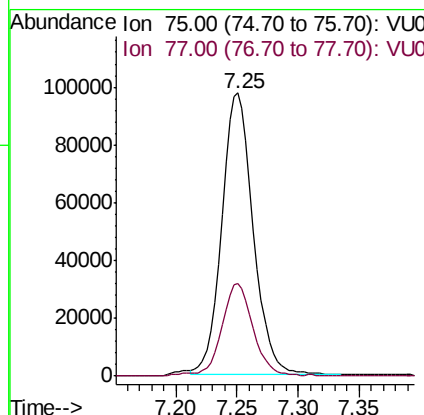
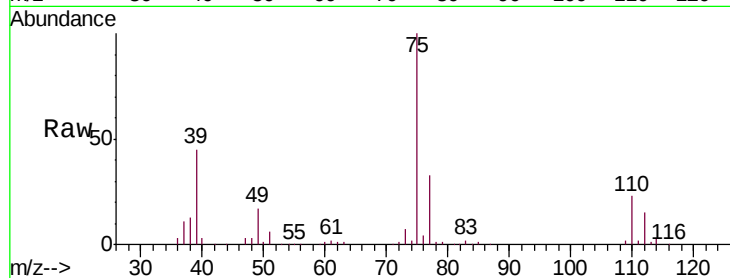


#39

cis-1,3-Dichloropropene
 Concen: 51.466 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

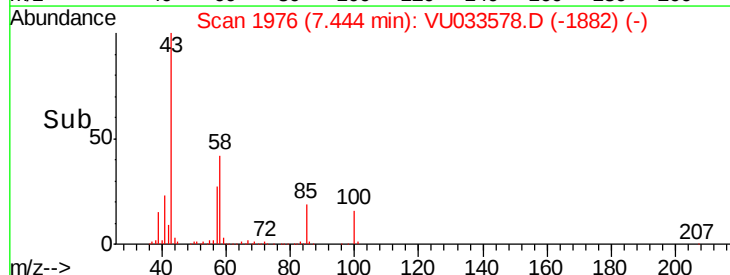
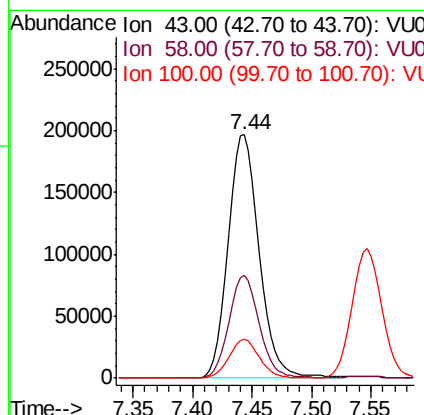
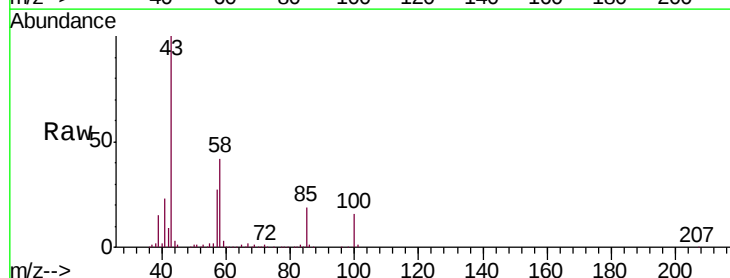
Tgt Ion: 75 Resp: 175987
 Ion Ratio Lower Upper
 75 100
 77 32.8 22.3 41.5

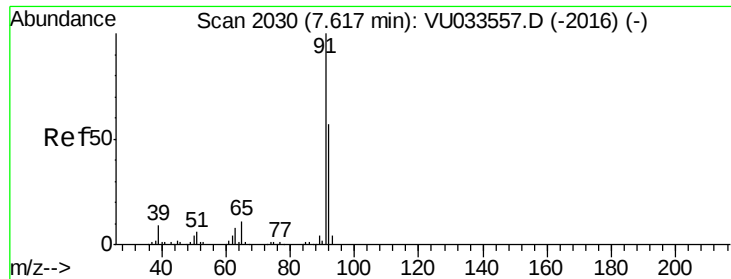


#40

4-Methyl-2-pentanone
 Concen: 117.577 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Tgt Ion: 43 Resp: 355650
 Ion Ratio Lower Upper
 43 100
 58 41.1 32.8 49.2
 100 15.5 12.9 19.3





#42

Toluene

Concen: 54.788 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

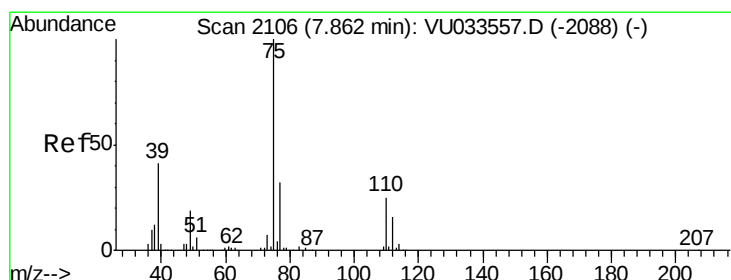
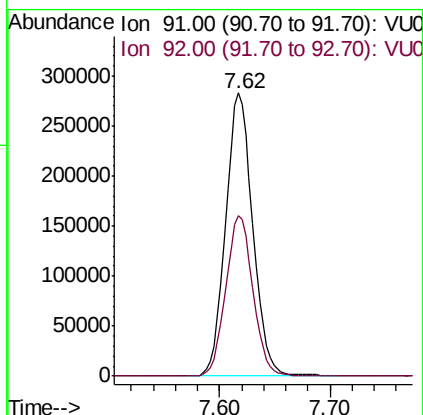
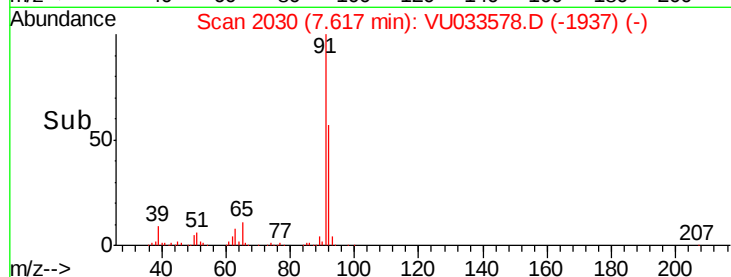
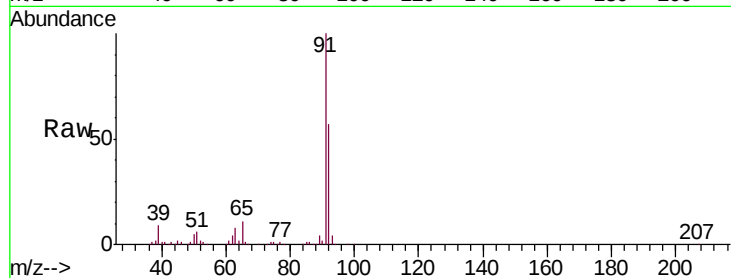
VSTD05047

Tgt Ion: 91 Resp: 482184

Ion Ratio Lower Upper

91 100

92 56.9 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 53.235 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033578.D

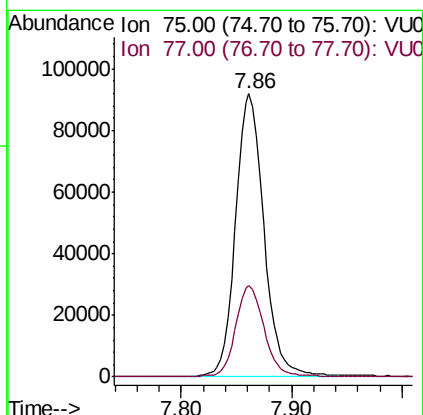
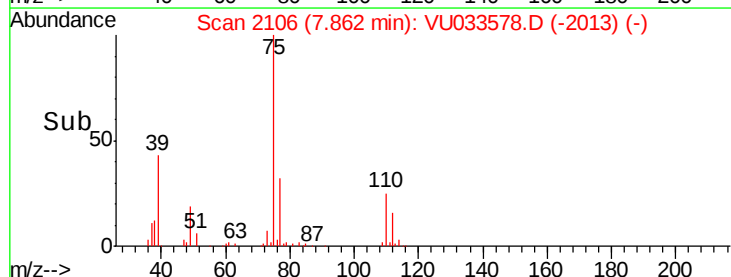
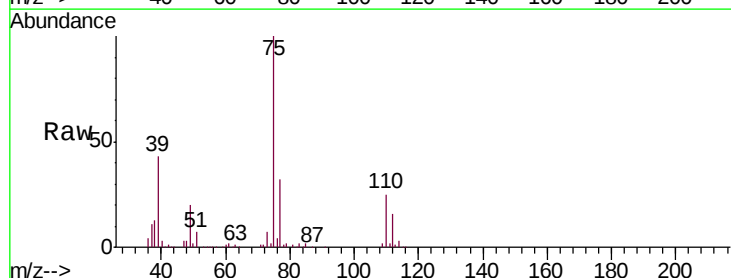
Acq: 02 Aug 2019 18:24

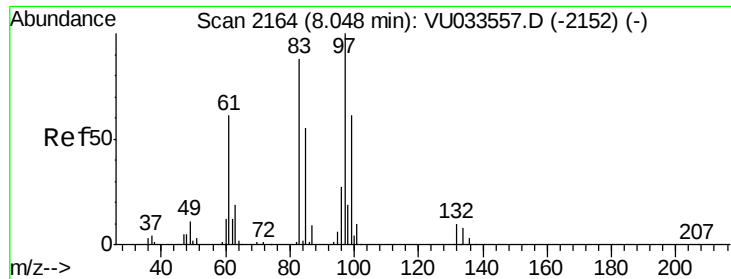
Tgt Ion: 75 Resp: 164509

Ion Ratio Lower Upper

75 100

77 32.4 22.7 42.1

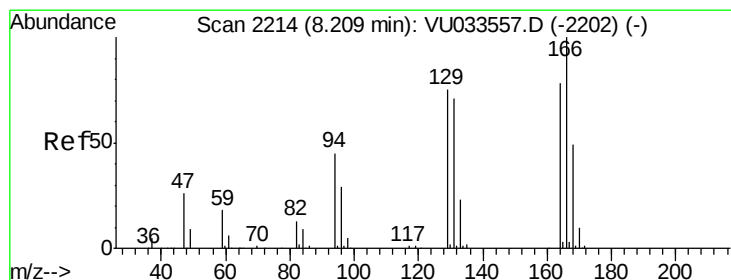
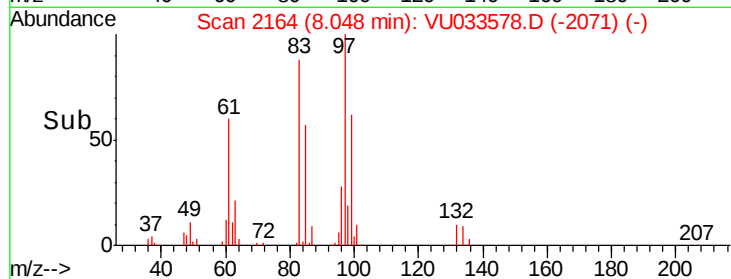
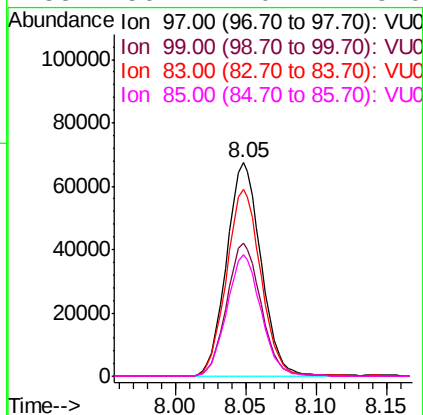
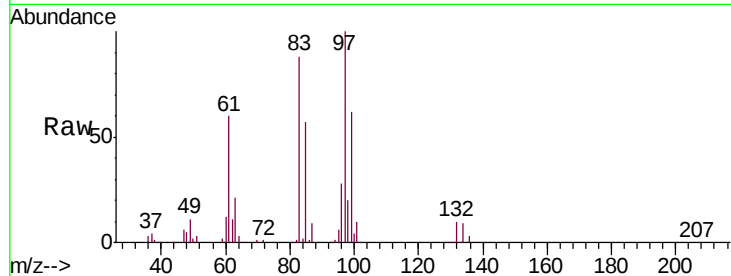




#45
 1,1,2-Trichloroethane
 Concen: 55.489 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

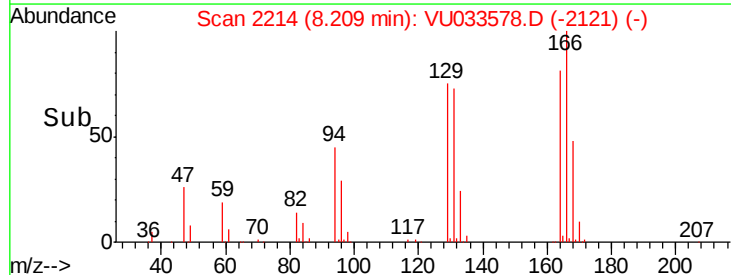
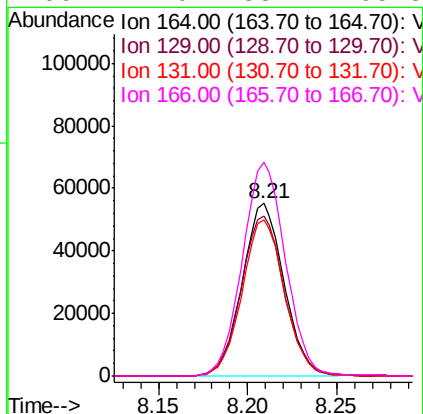
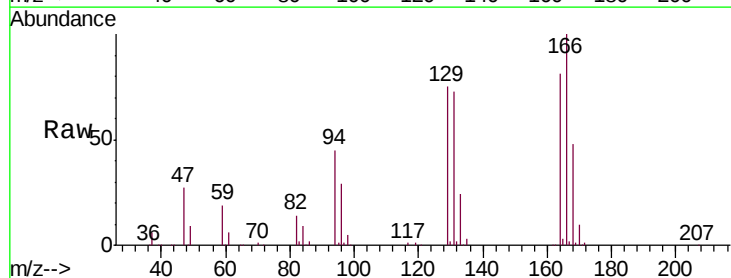
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

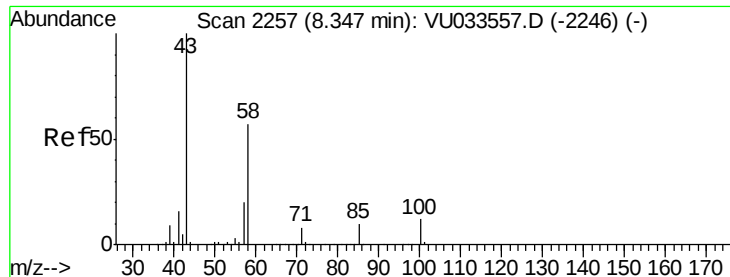
Tgt Ion:	97	Resp:	115410
Ion	Ratio	Lower	Upper
97	100		
99	62.3	44.4	82.4
83	87.6	61.5	114.1
85	56.7	40.4	75.0



#46
 Tetrachloroethene
 Concen: 51.363 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Tgt Ion:	164	Resp:	90535
Ion	Ratio	Lower	Upper
164	100		
129	93.0	65.5	121.7
131	90.6	63.3	117.7
166	124.0	88.2	163.8

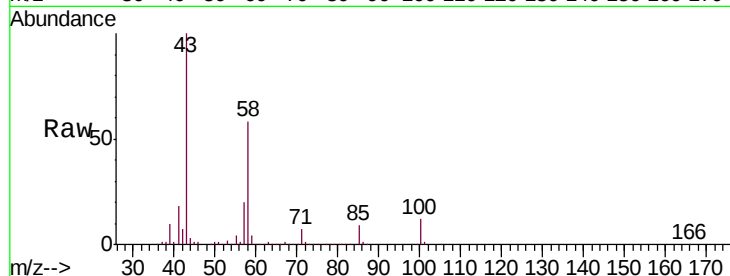




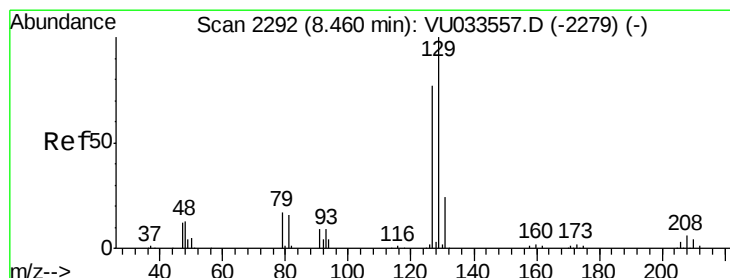
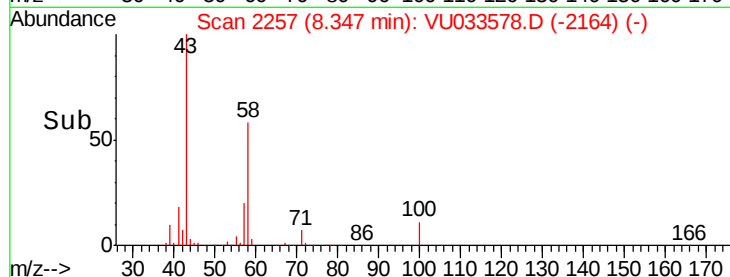
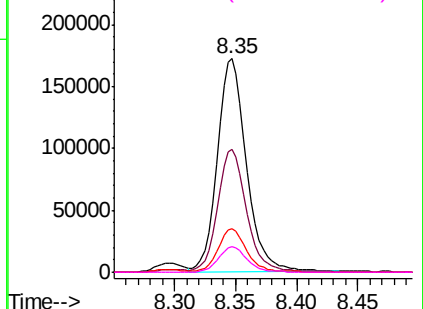
#48
2-Hexanone
Concen: 117.893 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. -0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Tgt Ion:	43	Resp:	288247
Ion	Ratio	Lower	Upper
43	100		
58	57.2	45.8	68.6
57	20.0	15.8	23.6
100	12.0	9.4	14.2

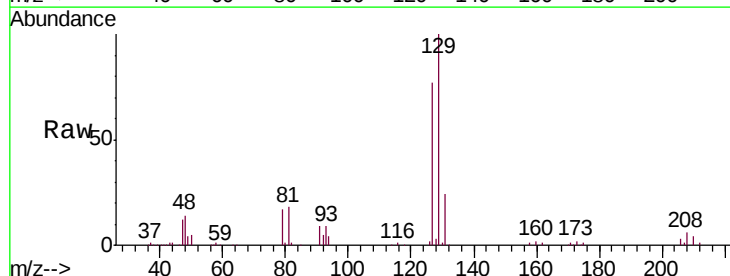


Abundance Ion 43.00 (42.70 to 43.70): VU033557.D (-2246) (-)
Ion 58.00 (57.70 to 58.70): VU033557.D (-2246) (-)
Ion 57.00 (56.70 to 57.70): VU033557.D (-2246) (-)
Ion 100.00 (99.70 to 100.70): VU033557.D (-2246) (-)

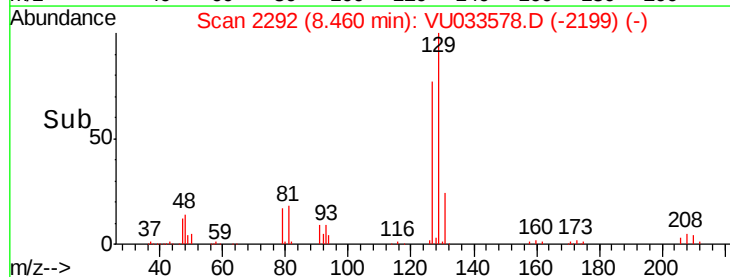
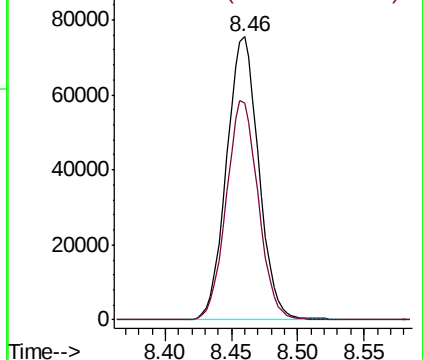


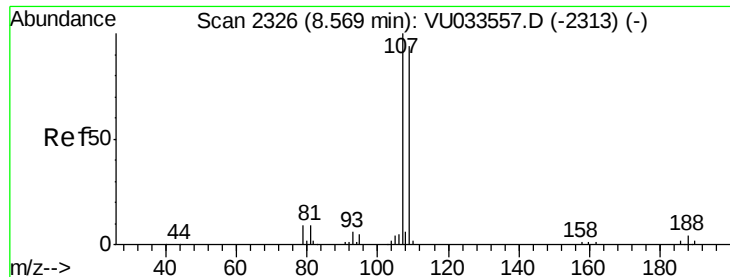
#49
Dibromochloromethane
Concen: 53.994 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

Tgt Ion:	129	Resp:	127766
Ion	Ratio	Lower	Upper
129	100		
127	76.8	53.8	99.8



Abundance Ion 129.00 (128.70 to 129.70): VU033557.D (-2279) (-)
Ion 127.00 (126.70 to 127.70): VU033557.D (-2279) (-)

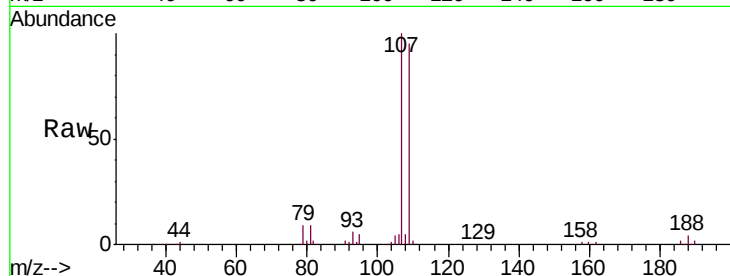




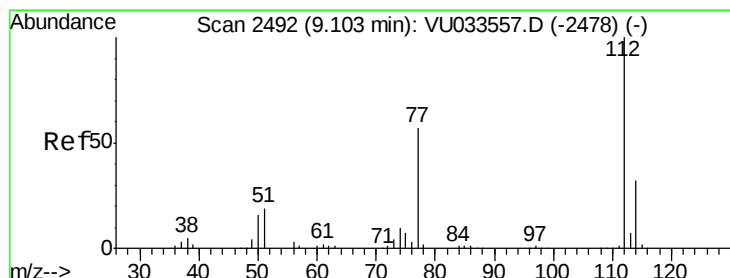
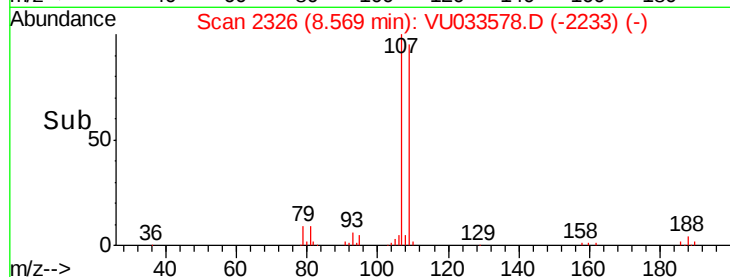
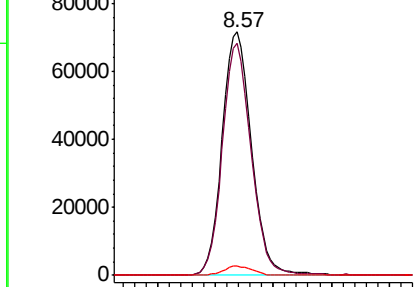
#50
1,2-Dibromoethane
Concen: 54.409 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.1	66.8	124.0
188	3.7	3.0	4.4

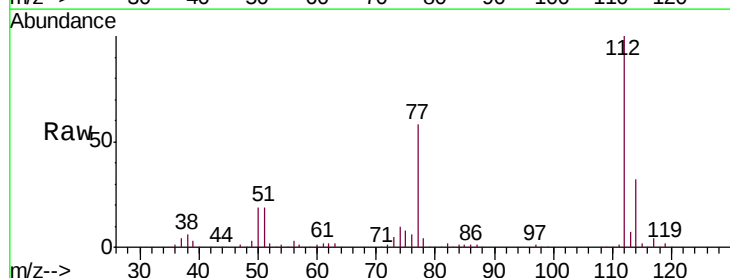


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

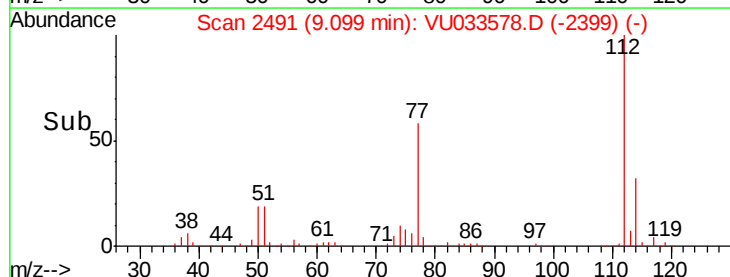
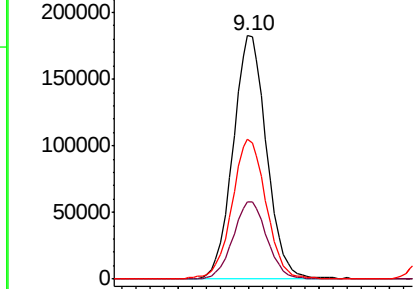


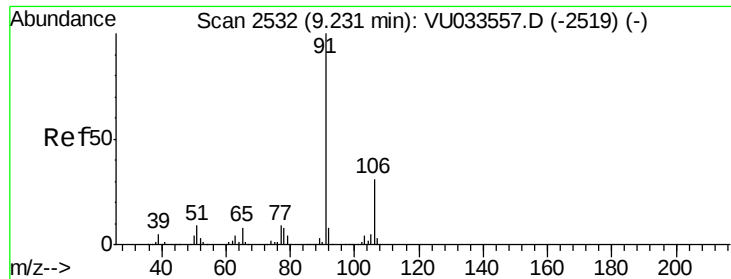
#51
Chlorobenzene
Concen: 52.730 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033578.D
Acq: 02 Aug 2019 18:24

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.3	41.5
77	57.6	45.6	68.4



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 53.876 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

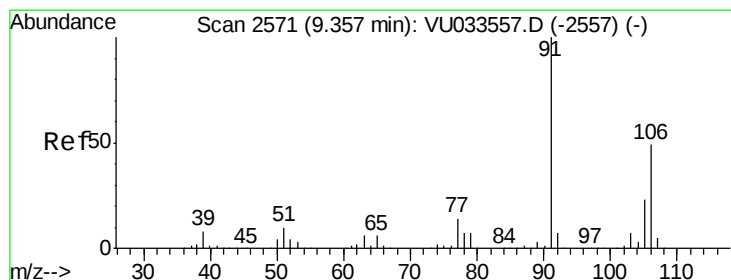
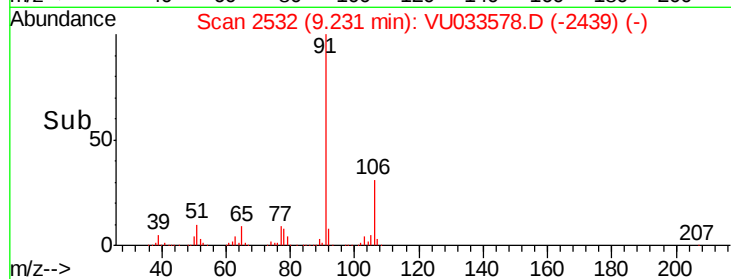
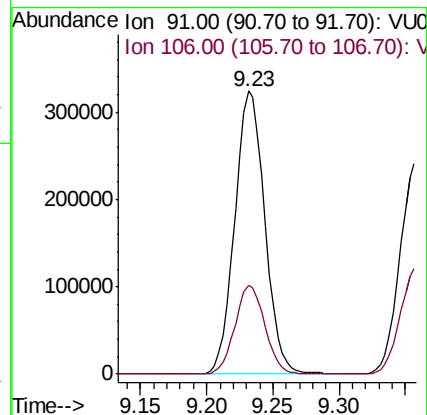
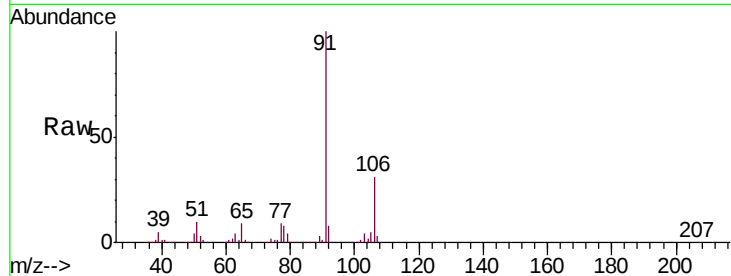
VSTD05047

Tgt Ion: 91 Resp: 510585

Ion Ratio Lower Upper

91 100

106 31.4 22.2 41.2



#53

m,p-Xylene

Concen: 53.818 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033578.D

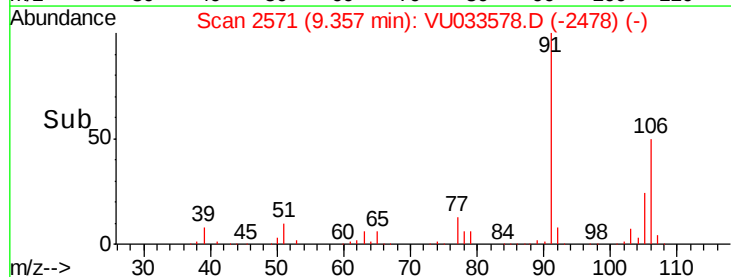
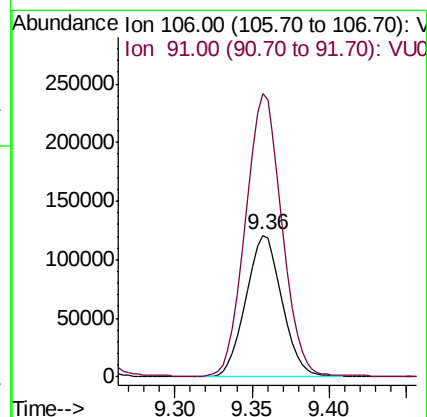
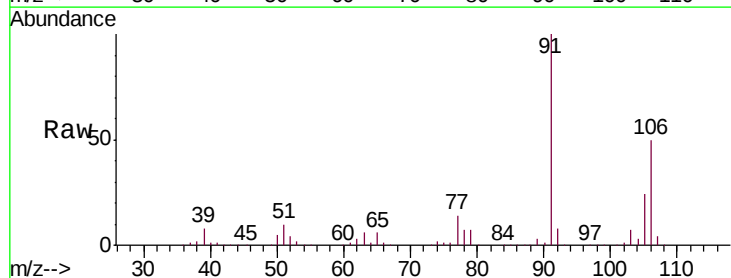
Acq: 02 Aug 2019 18:24

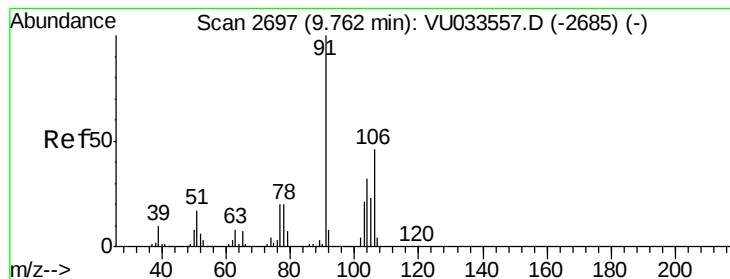
Tgt Ion: 106 Resp: 195799

Ion Ratio Lower Upper

106 100

91 200.3 143.0 265.6





#54

o-xylene

Concen: 54.903 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

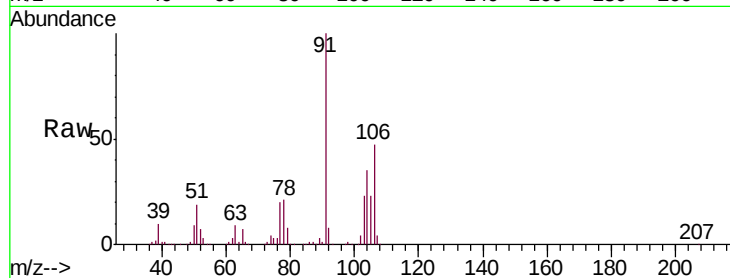
VSTD05047

Tgt Ion:106 Resp: 193764

Ion Ratio Lower Upper

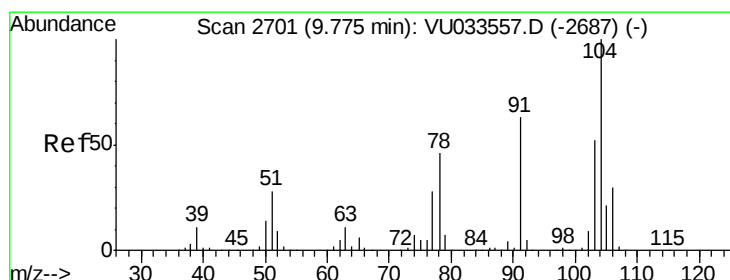
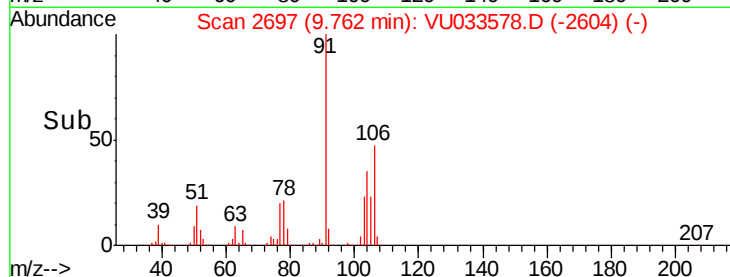
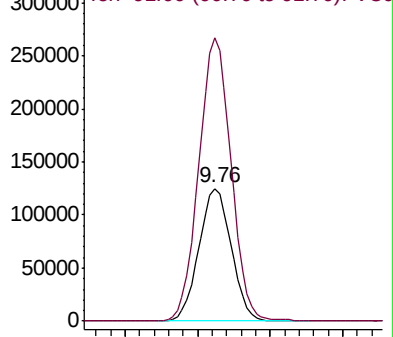
106 100

91 213.5 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 56.208 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033578.D

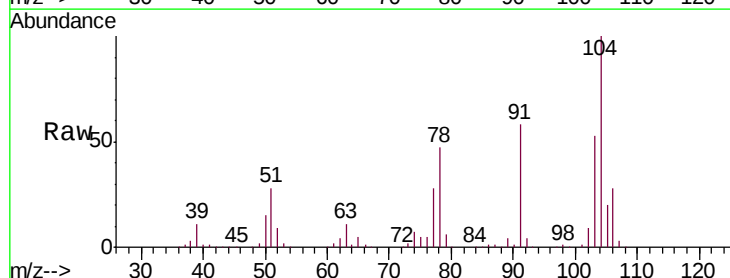
Acq: 02 Aug 2019 18:24

Tgt Ion:104 Resp: 336913

Ion Ratio Lower Upper

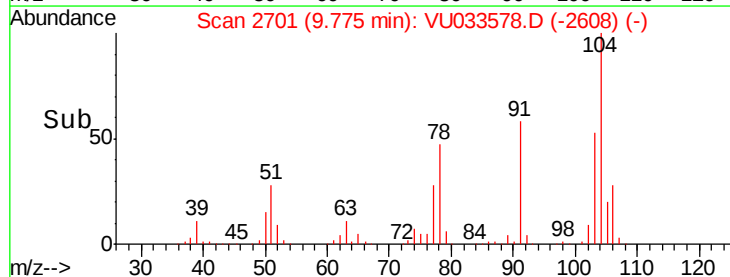
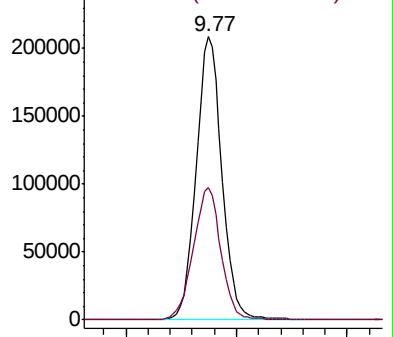
104 100

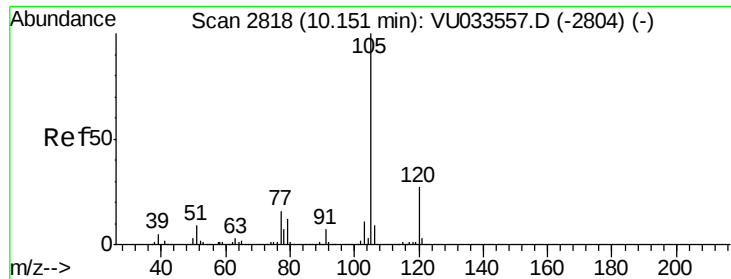
78 46.7 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 54.341 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

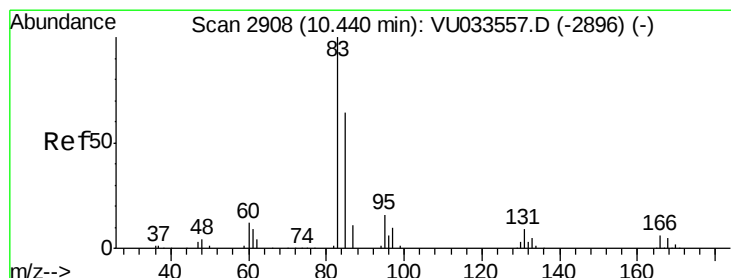
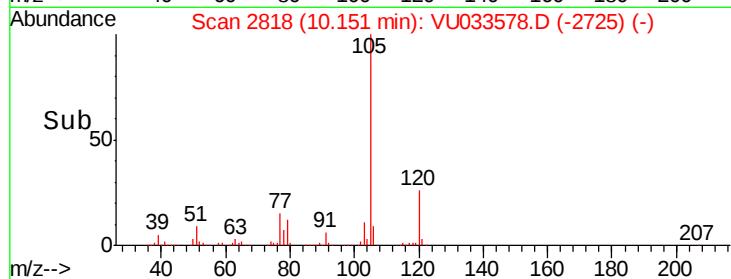
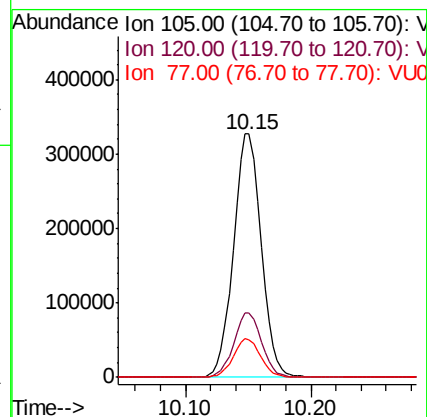
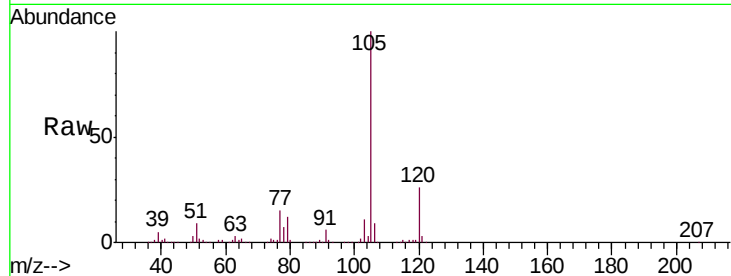
Tgt Ion: 105 Resp: 501096

Ion Ratio Lower Upper

105 100

120 26.6 21.4 32.0

77 15.6 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 55.100 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

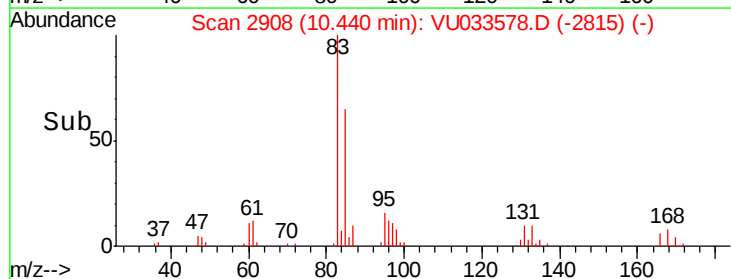
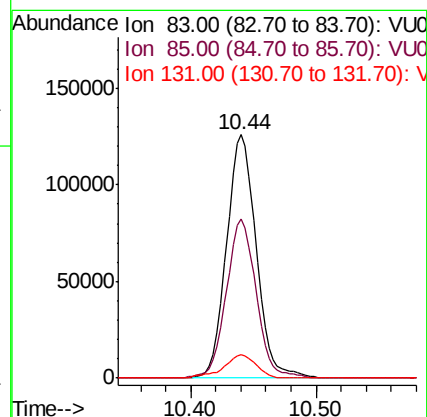
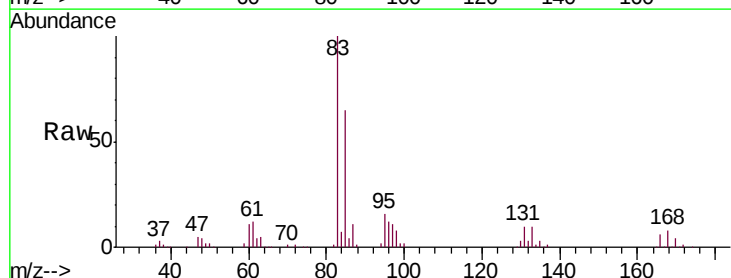
Tgt Ion: 83 Resp: 206695

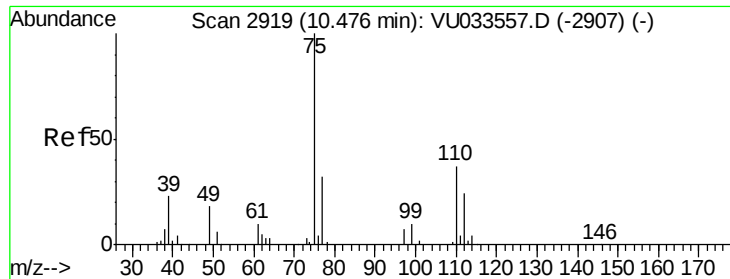
Ion Ratio Lower Upper

83 100

85 65.3 45.4 84.4

131 9.5 7.9 11.9

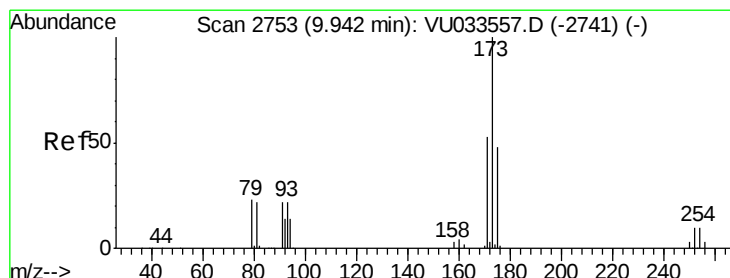
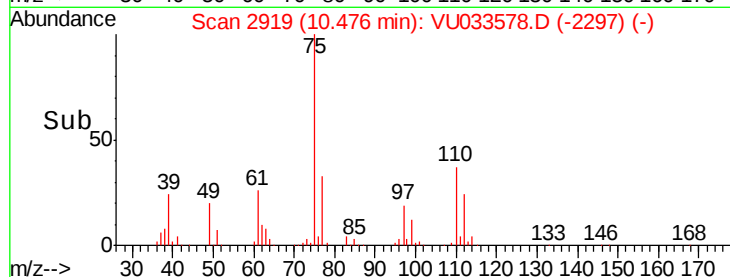
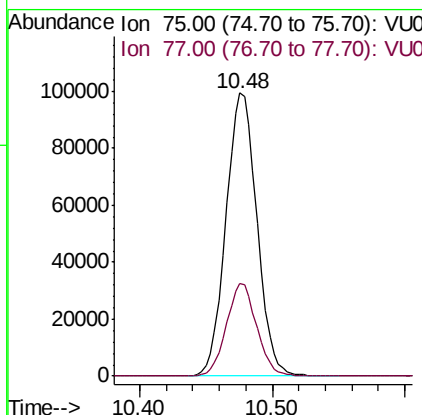
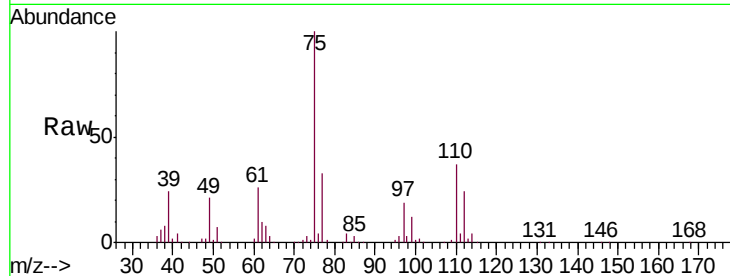




#59
 1,2,3-Trichloropropane
 Concen: 55.911 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

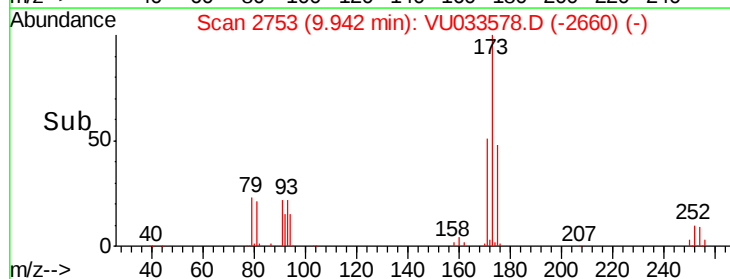
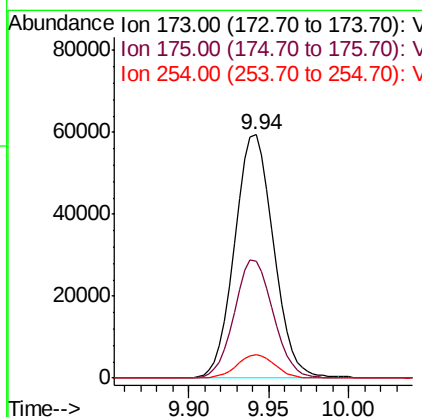
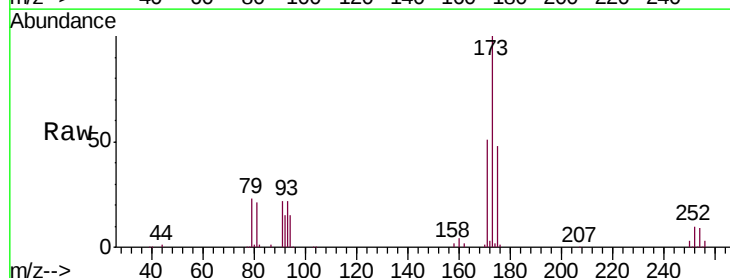
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

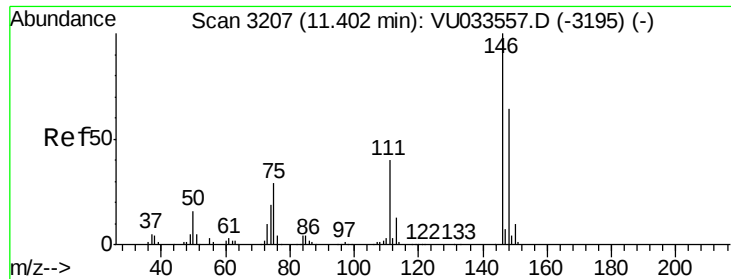
Tgt Ion: 75 Resp: 161683
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.8 38.6



#61
 Bromoform
 Concen: 53.386 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Tgt Ion: 173 Resp: 98569
 Ion Ratio Lower Upper
 173 100
 175 48.5 38.7 58.1
 254 9.2 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 52.278 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

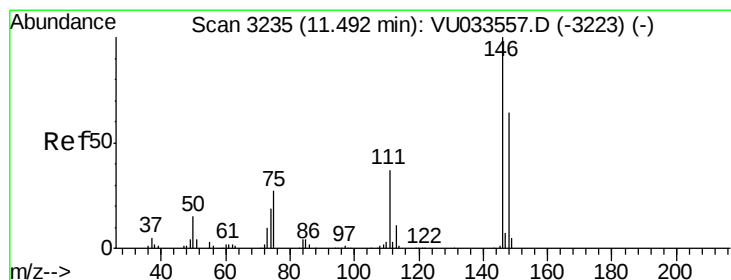
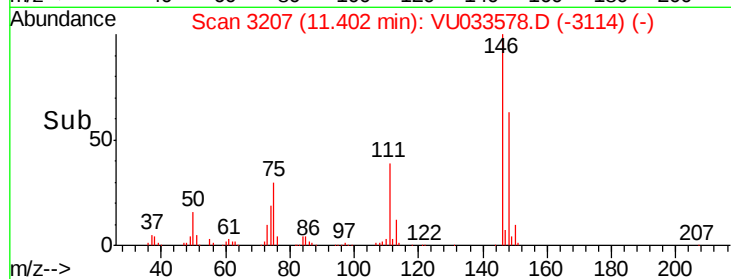
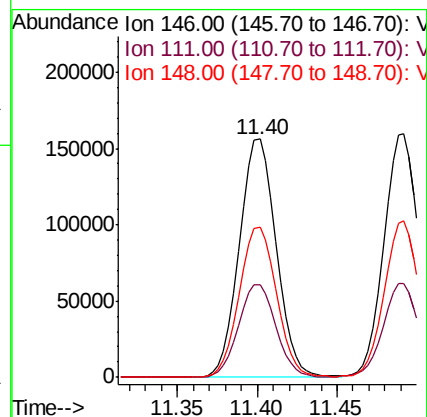
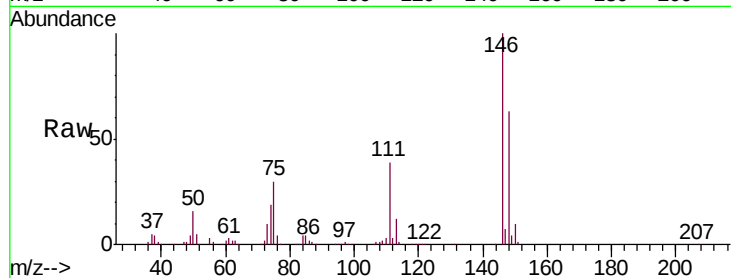
Tgt Ion:146 Resp: 245402

Ion Ratio Lower Upper

146 100

111 38.8 28.1 52.1

148 62.9 45.0 83.6



#63

1,4-Dichlorobenzene

Concen: 51.438 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

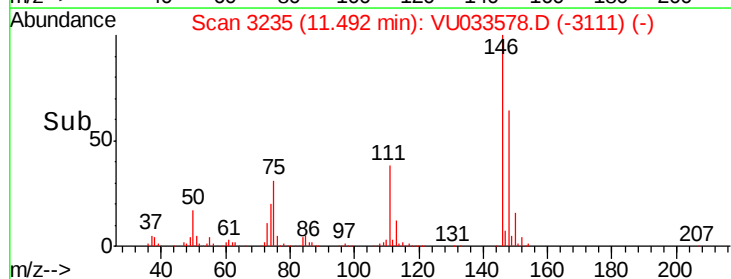
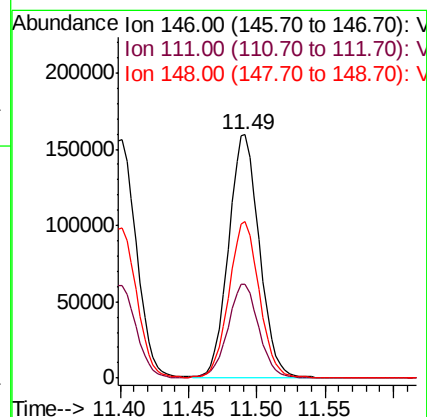
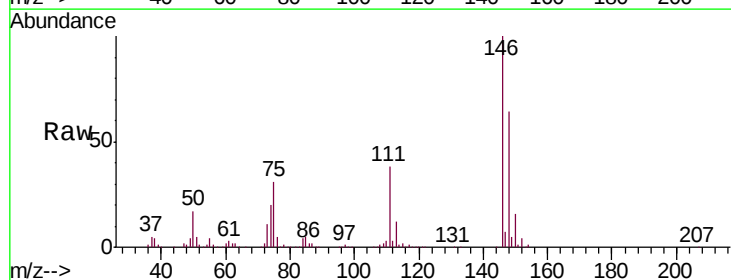
Tgt Ion:146 Resp: 250856

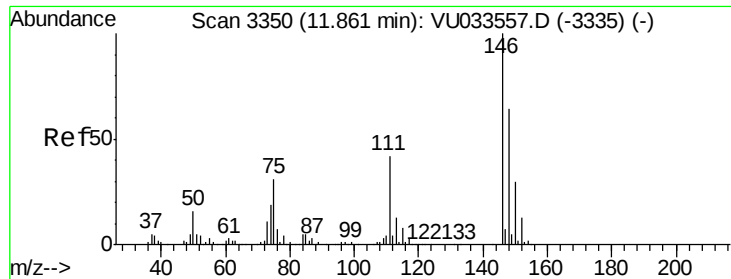
Ion Ratio Lower Upper

146 100

111 38.5 27.2 50.4

148 64.3 44.5 82.7

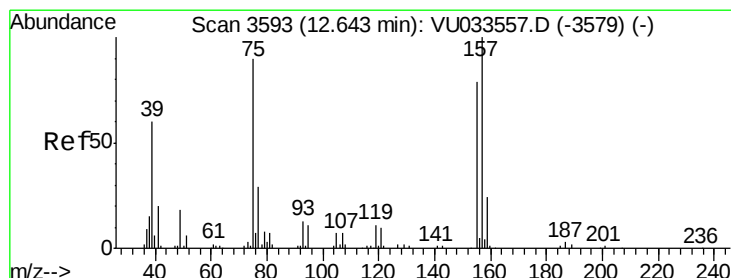
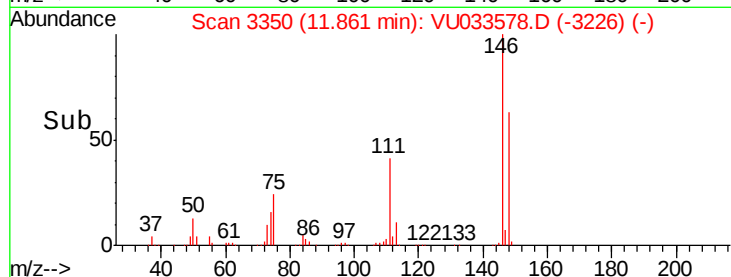
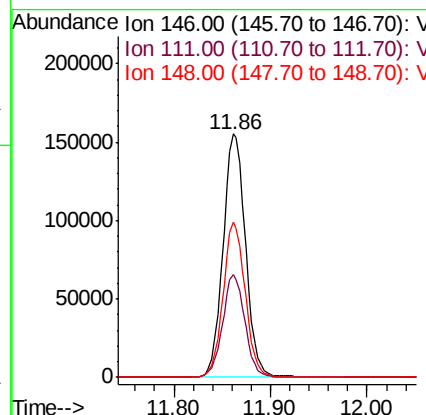
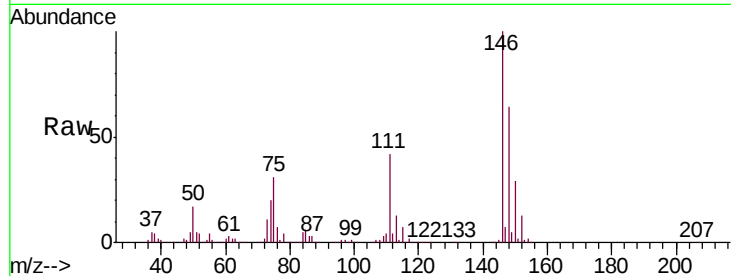




#65
 1,2-Dichlorobenzene
 Concen: 52.810 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

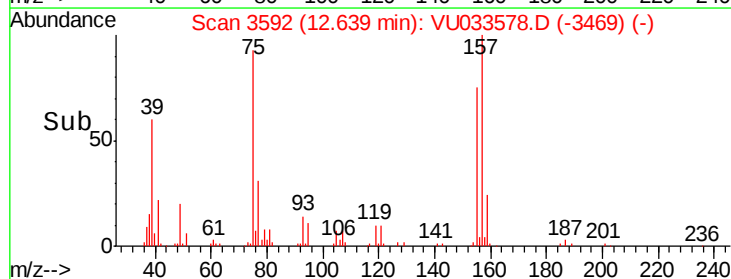
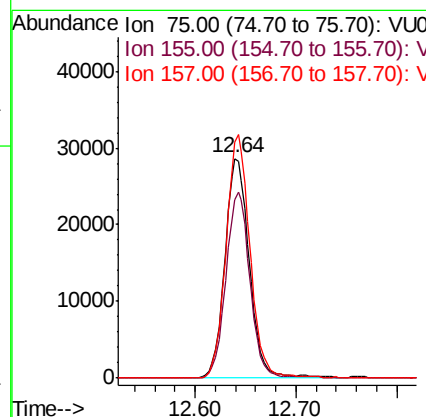
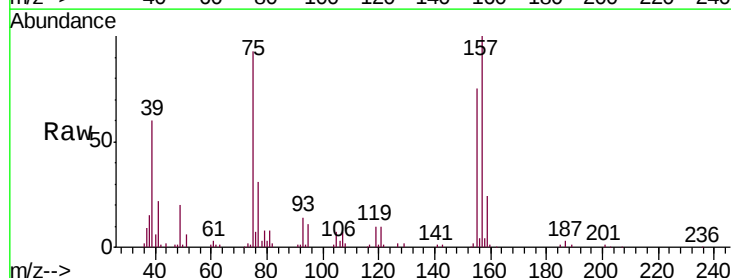
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

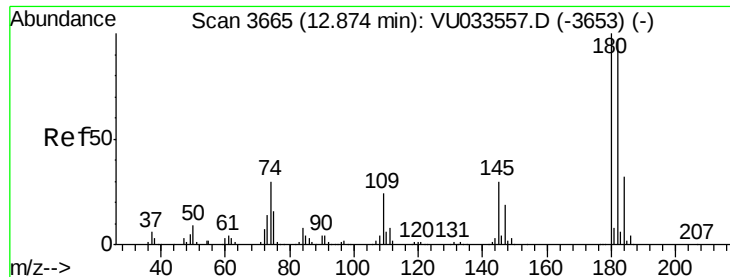
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.1	31.7	47.5
148	63.7	50.3	75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 55.541 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.0	69.4	104.0
157	107.4	91.8	137.8

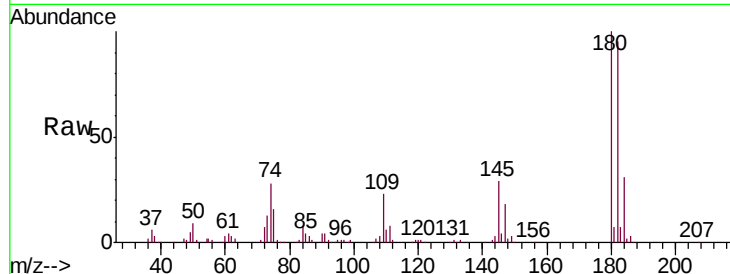




#67
 1,3,5-Trichlorobenzene
 Concen: 49.142 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.6	113.4
184	31.0	24.2	36.2
145	29.4	22.7	34.1



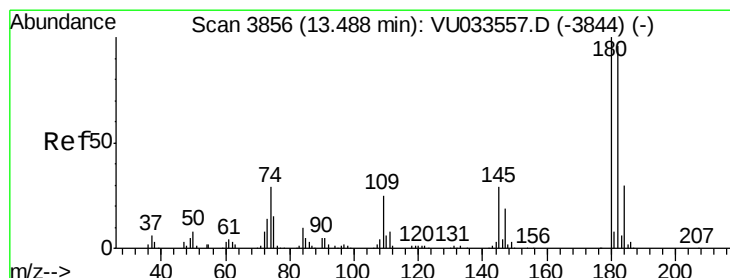
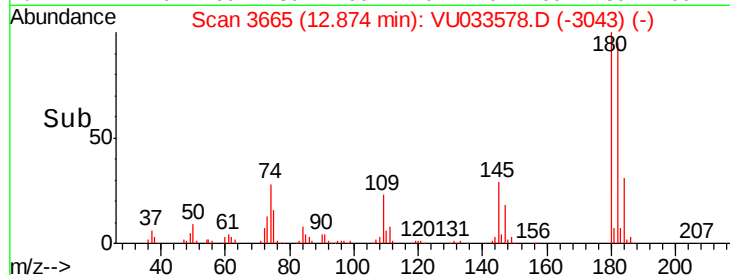
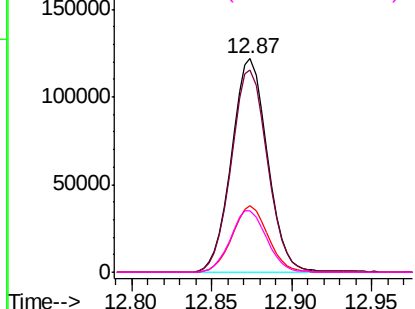
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

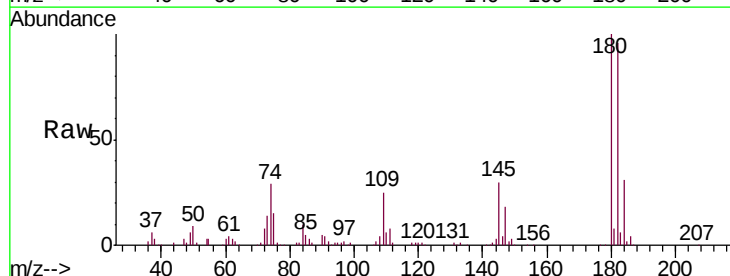
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.910 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033578.D
 Acq: 02 Aug 2019 18:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	75.8	113.8
145	29.9	24.3	36.5

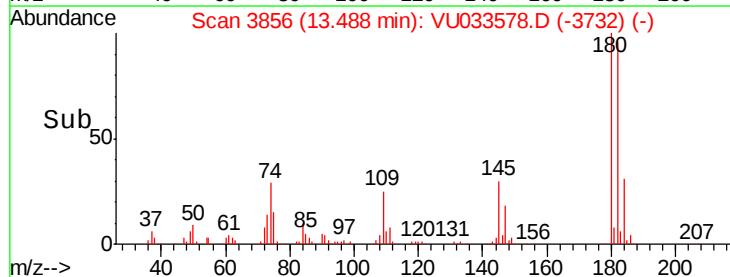
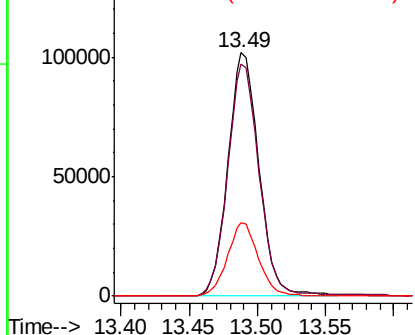


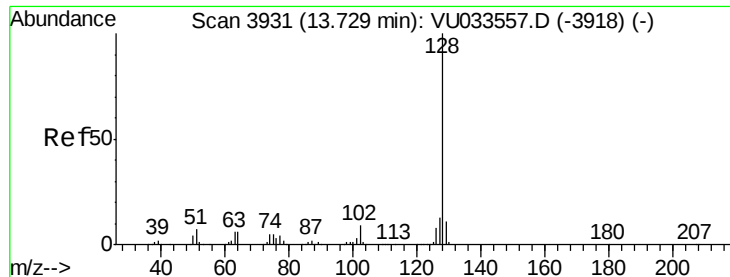
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 54.219 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

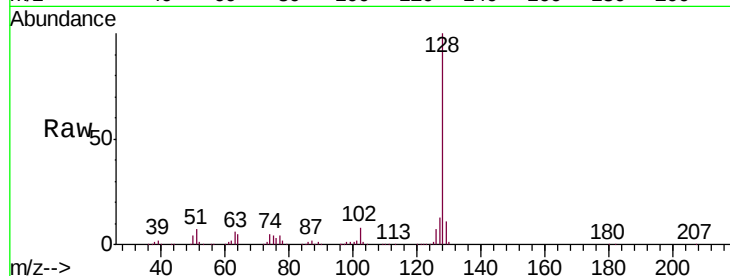
Tgt Ion:128 Resp: 503380

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

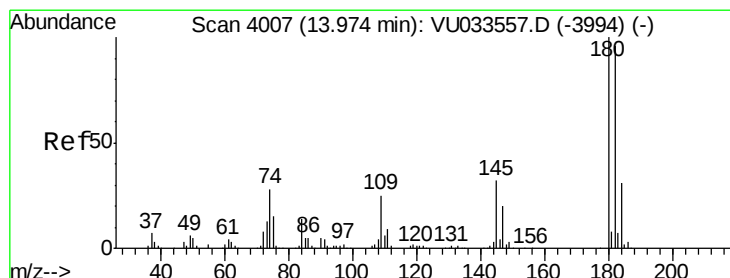
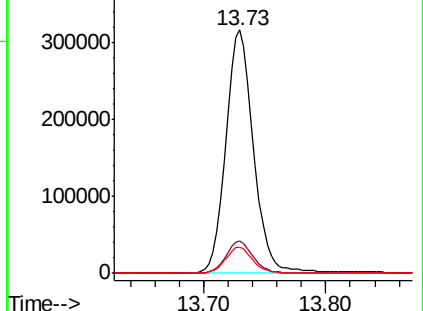
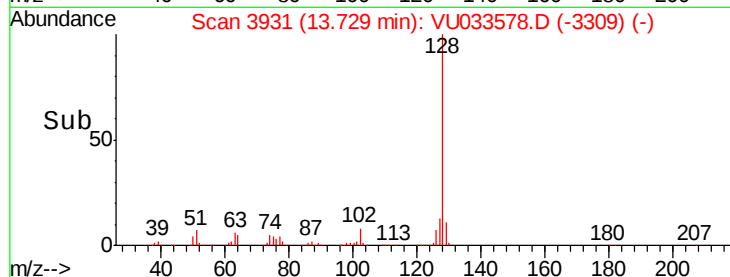
129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.812 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033578.D

Acq: 02 Aug 2019 18:24

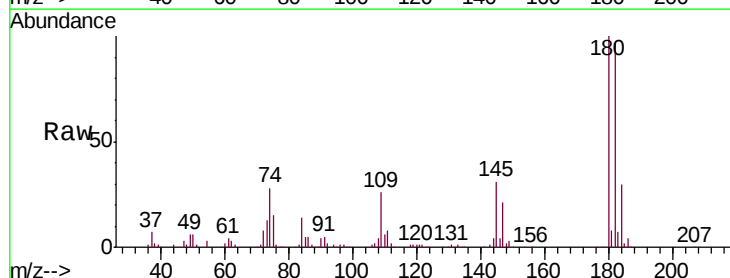
Tgt Ion:180 Resp: 172923

Ion Ratio Lower Upper

180 100

182 96.7 75.5 113.3

145 31.0 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

