

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080319\
 Data File : VU033581.D
 Acq On : 03 Aug 2019 10:33
 Operator : JC/SP
 Sample : VSTD00535
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00535

Quant Time: Aug 05 05:29:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 05:25:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	260472	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	258503	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	131107	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	8105	4.33	ug/L	0.00
7) Chloroethane-d5	1.67	69	7280	4.48	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	14946	4.35	ug/L	0.00
21) 2-Butanone-d5	4.19	46	8844	6.89	ug/L	0.03
24) Chloroform-d	4.63	84	14727	4.58	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	9391	4.64	ug/L	0.00
32) Benzene-d6	5.32	84	27100	4.20	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	8959	4.43	ug/L	0.00
41) Toluene-d8	7.55	98	23472	3.89	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	3931	3.91	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	6562	6.80	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.42	84	13867	4.42	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	11296	4.67	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	9547	3.955 ug/L	94
3) Chloromethane	1.32	50	9749	3.996 ug/L	95
5) Vinyl chloride	1.40	62	10520	4.016 ug/L	94
6) Bromomethane	1.62	94	6991	3.006 ug/L	96
8) Chloroethane	1.69	64	7660	4.811 ug/L	98
9) Trichlorofluoromethane	1.87	101	14691	4.276 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	7473	4.276 ug/L	98
12) 1,1-Dichloroethene	2.27	96	7021	4.217 ug/L	93
13) Acetone	2.32	43	13726	10.685 ug/L	98
14) Carbon disulfide	2.47	76	21015	4.055 ug/L	97
15) Methyl Acetate	2.61	43	8326	4.047 ug/L	97
16) Methylene chloride	2.68	84	8322	4.346 ug/L	92
17) trans-1,2-Dichloroethene	2.96	96	7339	4.201 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	20387	3.802 ug/L	97
19) 1,1-Dichloroethane	3.42	63	13750	4.165 ug/L	94
20) cis-1,2-Dichloroethene	4.21	96	7928	4.014 ug/L	97
22) 2-Butanone	4.26	43	12541	8.157 ug/L	77
23) Bromochloromethane	4.53	128	4304	4.211 ug/L	92
25) Chloroform	4.65	83	14526	4.190 ug/L	98
27) 1,2-Dichloroethane	5.39	62	10881	4.064 ug/L	97
29) Cyclohexane	4.97	56	9660	3.469 ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	11871	4.020 ug/L	98
31) Carbon tetrachloride	5.11	117	10450	4.054 ug/L	94
33) Benzene	5.37	78	29473	3.985 ug/L	100
34) Trichloroethene	6.17	95	8417	4.320 ug/L	93
35) Methylcyclohexane	6.40	83	10338	3.407 ug/L	96
37) 1,2-Dichloropropane	6.41	63	8019	4.015 ug/L	100
38) Bromodichloromethane	6.74	83	10649	4.141 ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	11539	3.725 ug/L	94
40) 4-Methyl-2-pentanone	7.45	43	21899	7.898 ug/L	92

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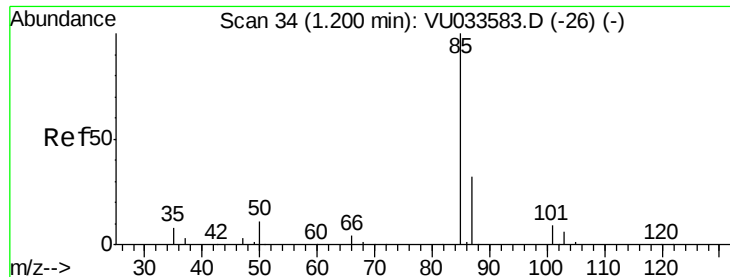
Instrument :
 MSVOA_U
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Quant Time: Aug 05 05:29:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080319WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.62	91	28974	3.650	ug/L	91
44) trans-1,3-Dichloropropene	7.87	75	10150	3.640	ug/L	96
45) 1,1,2-Trichloroethane	8.05	97	7806	4.136	ug/L	93
46) Tetrachloroethene	8.21	164	6432	4.061	ug/L	98
48) 2-Hexanone	8.35	43	16945	7.590	ug/L	99
49) Dibromochloromethane	8.46	129	8393	3.916	ug/L	99
50) 1,2-Dibromoethane	8.57	107	8553	4.116	ug/L #	93
51) Chlorobenzene	9.10	112	22012	4.238	ug/L	95
52) Ethylbenzene	9.23	91	30714	3.593	ug/L	97
53) m,p-Xylene	9.36	106	10602	3.222	ug/L	94
54) o-xylene	9.76	106	10765	3.392	ug/L	98
55) Styrene	9.78	104	17382	3.222	ug/L	90
56) Isopropylbenzene	10.15	105	28224	3.396	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	14353	4.208	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	11611	4.404	ug/L	96
61) Bromoform	9.94	173	6558	4.172	ug/L #	95
62) 1,3-Dichlorobenzene	11.40	146	16534	4.145	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	18079	4.355	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	16712	4.142	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	3296	4.356	ug/L #	86
67) 1,3,5-Trichlorobenzene	12.88	180	13065	4.078	ug/L	97
68) 1,2,4-trichlorobenzene	13.49	180	9709	3.554	ug/L	97
69) Naphthalene	13.73	128	26663	3.395	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	11433	3.981	ug/L	93

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



#2

Dichlorodifluoromethane

Concen: 3.955 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

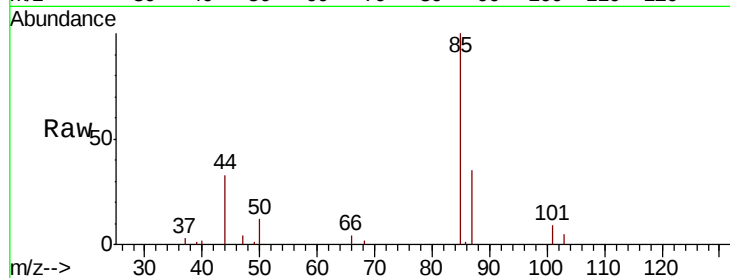
VSTD00535

Tgt Ion: 85 Resp: 9547

Ion Ratio Lower Upper

85 100

87 35.8 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU033581.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033581.D (-1) (-)

10000

8000

6000

4000

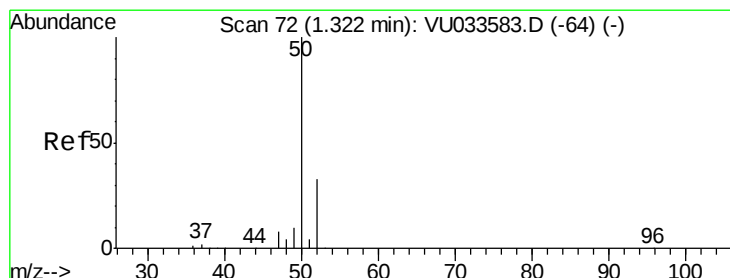
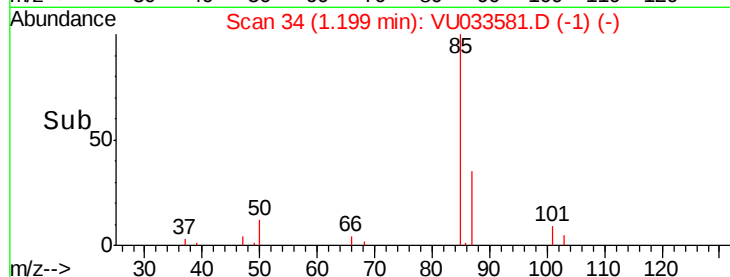
2000

0

1.20

1.25

Time-->



#3

Chloromethane

Concen: 3.996 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033581.D

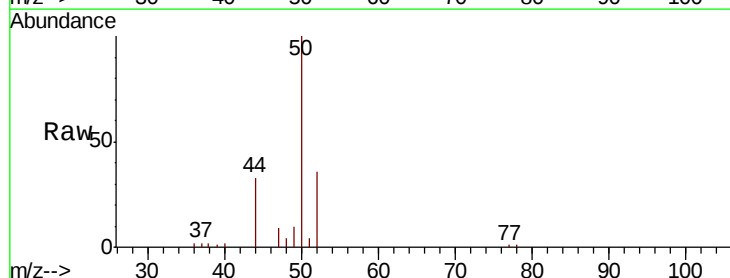
Acq: 03 Aug 2019 10:33

Tgt Ion: 50 Resp: 9749

Ion Ratio Lower Upper

50 100

52 35.6 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033581.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033581.D (-1) (-)

10000

8000

6000

4000

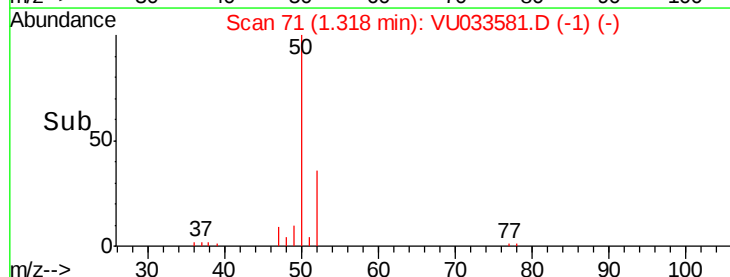
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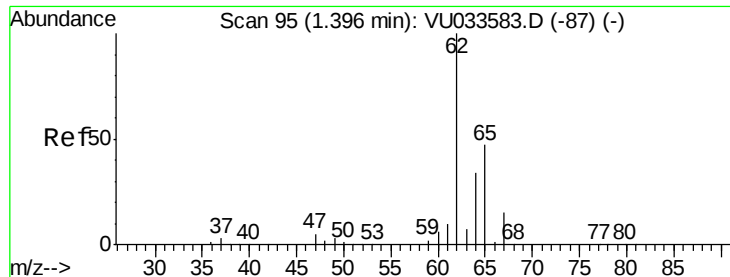
0

1.32

1.36

Time-->





#5

Vinyl chloride

Concen: 4.016 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

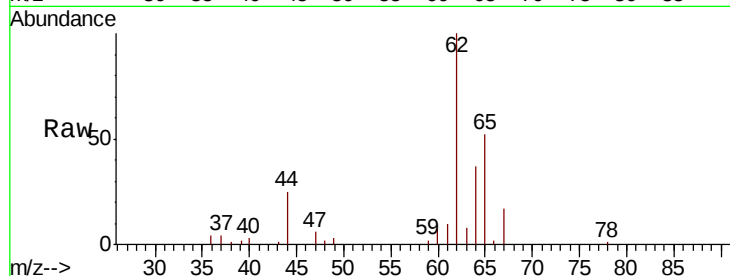
VSTD00535

Tgt Ion: 62 Resp: 10520

Ion Ratio Lower Upper

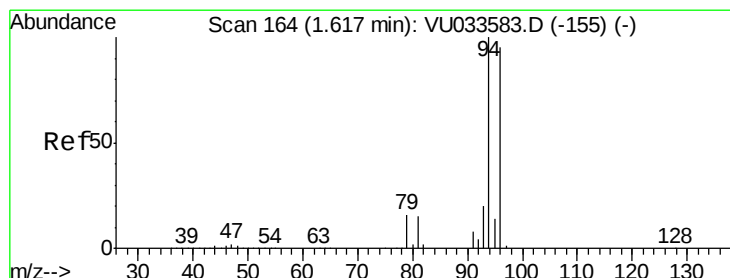
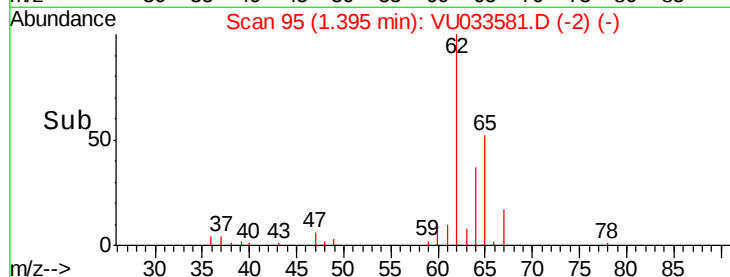
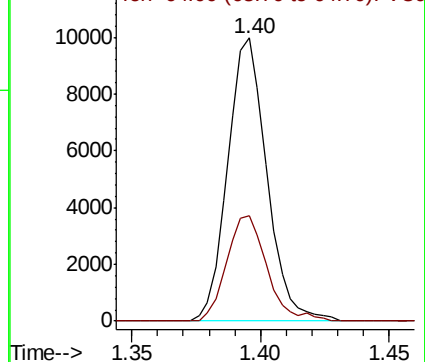
62 100

64 37.1 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 3.006 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU033581.D

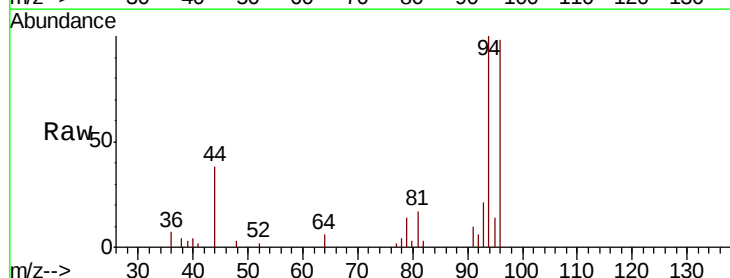
Acq: 03 Aug 2019 10:33

Tgt Ion: 94 Resp: 6991

Ion Ratio Lower Upper

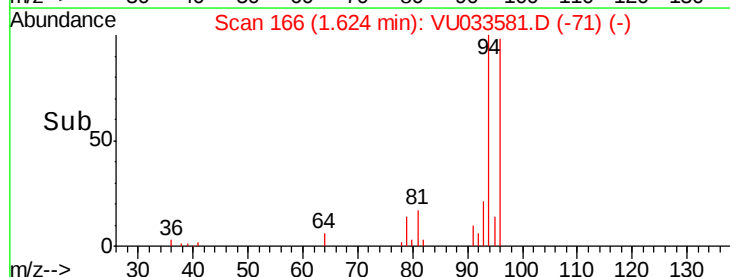
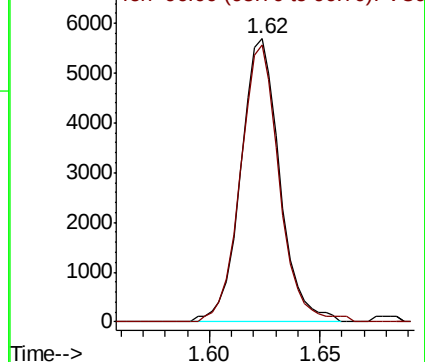
94 100

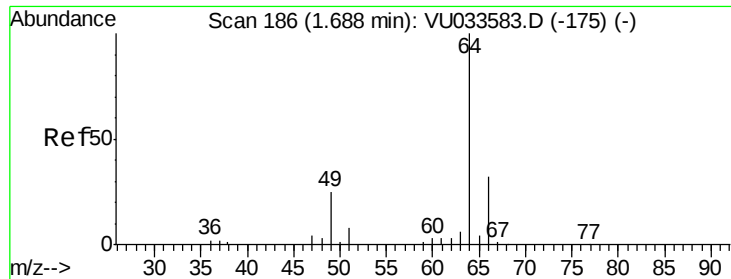
96 98.0 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.811 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

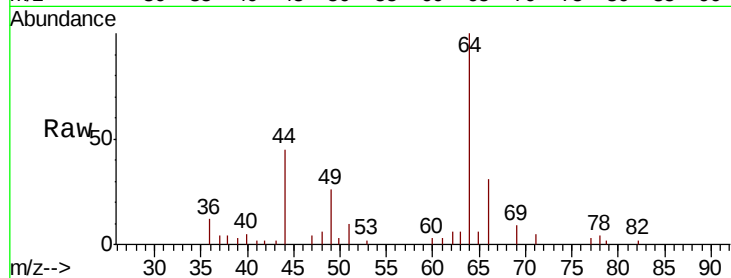
VSTD00535

Tgt Ion: 64 Resp: 7660

Ion Ratio Lower Upper

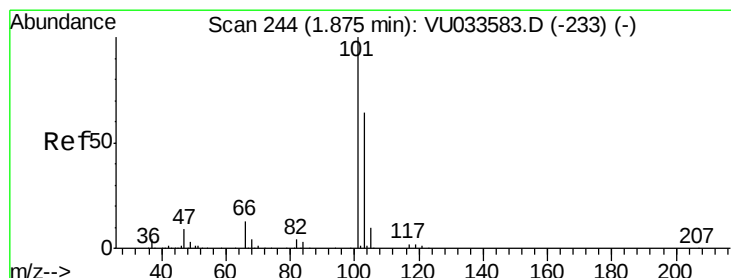
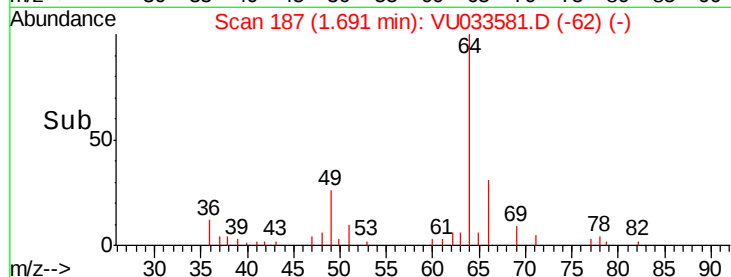
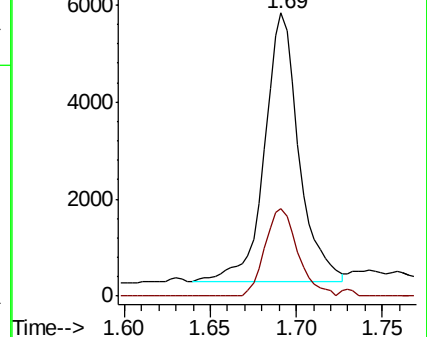
64 100

66 30.9 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VU033581.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033581.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 4.276 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033581.D

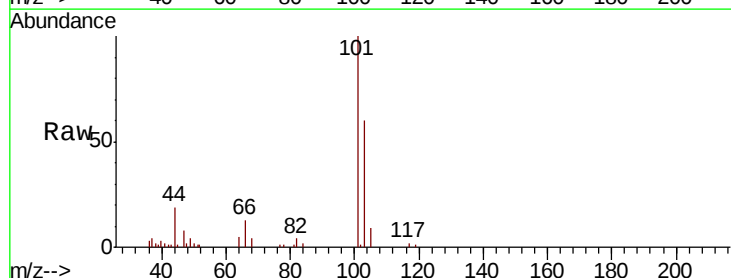
Acq: 03 Aug 2019 10:33

Tgt Ion: 101 Resp: 14691

Ion Ratio Lower Upper

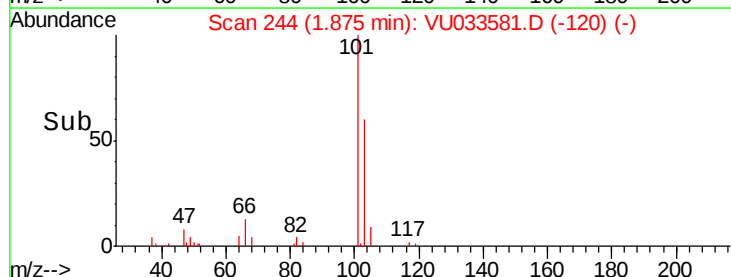
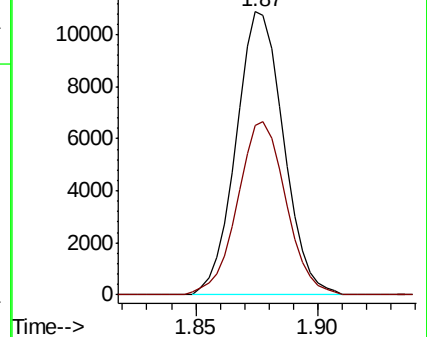
101 100

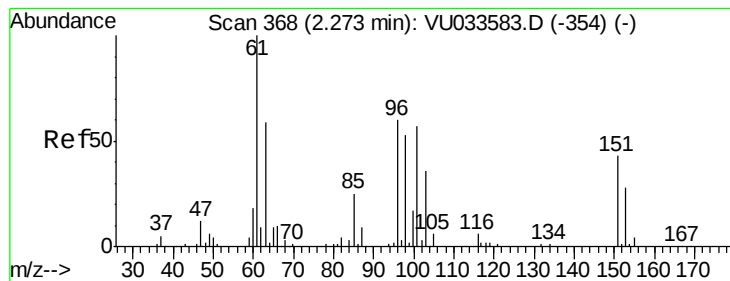
103 62.5 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VU033581.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033581.D (-233) (-)





#10

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

Concen: 4.276 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD00535

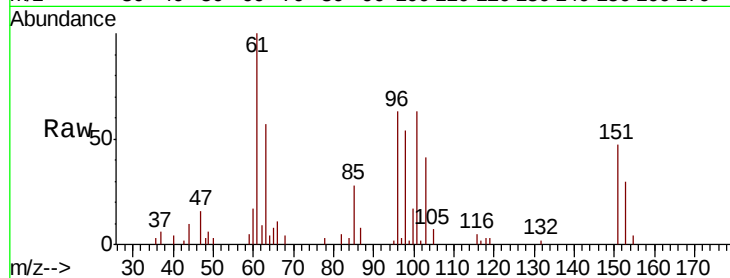
Tgt Ion: 101 Resp: 7473

Ion Ratio Lower Upper

101 100

85 44.1 35.5 53.3

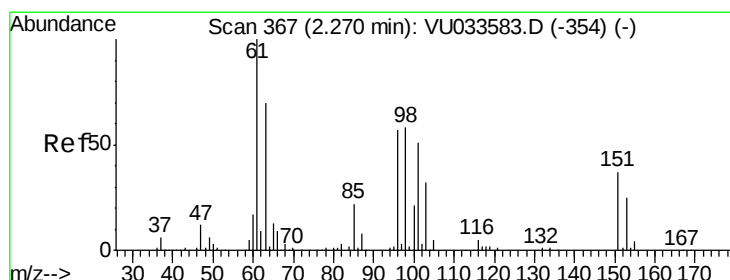
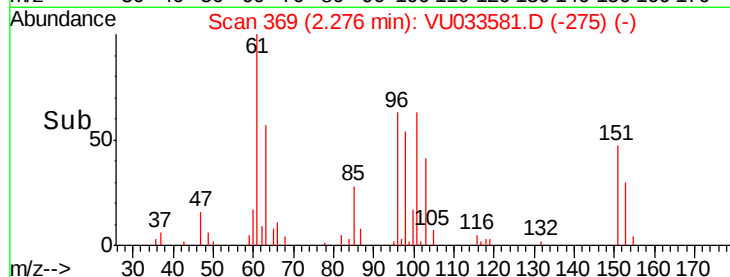
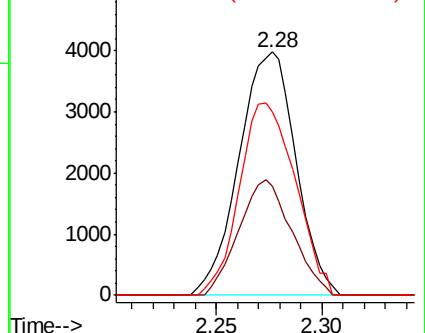
151 77.7 59.9 89.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.217 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

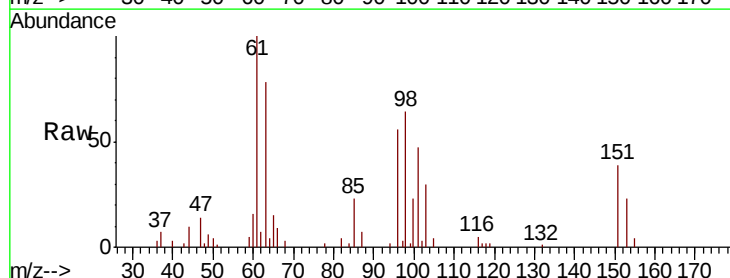
Tgt Ion: 96 Resp: 7021

Ion Ratio Lower Upper

96 100

61 179.4 122.8 228.0

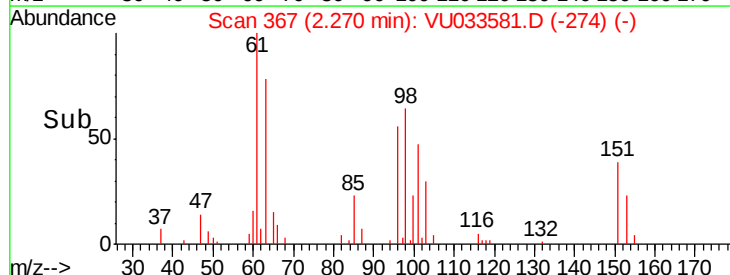
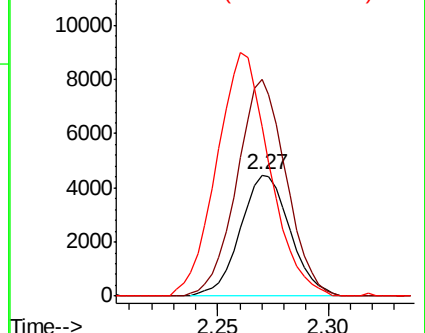
63 140.0 87.1 161.7

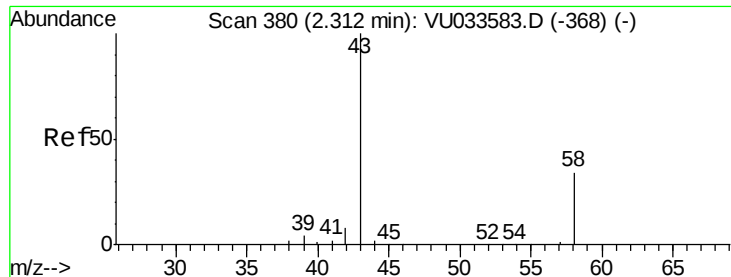


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 10.685 ug/L

RT: 2.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

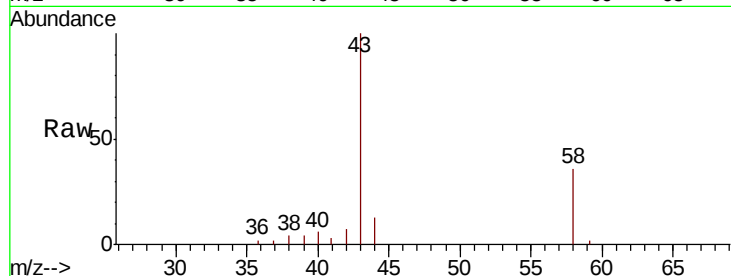
VSTD00535

Tgt Ion: 43 Resp: 13726

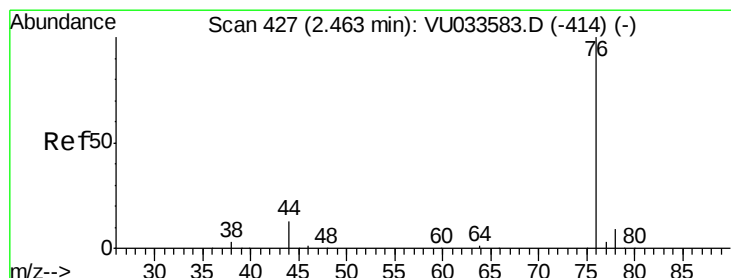
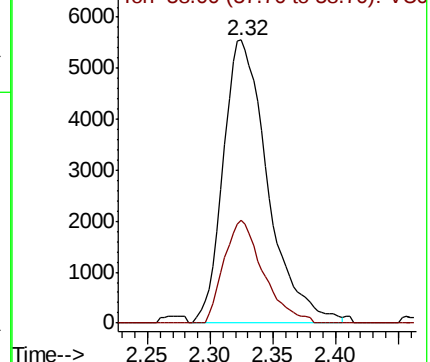
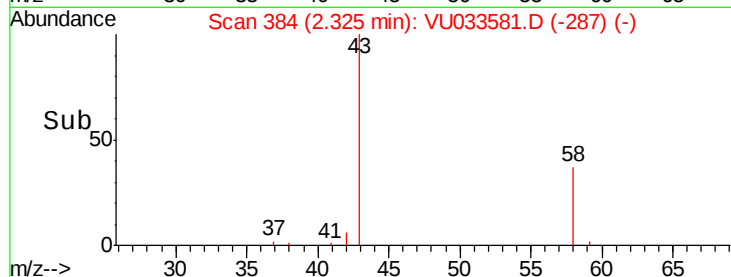
Ion Ratio Lower Upper

43 100

58 32.1 0.0 66.0



Abundance Ion 43.00 (42.70 to 43.70): VU033581.D (-287) (-)



#14

Carbon disulfide

Concen: 4.055 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU033581.D

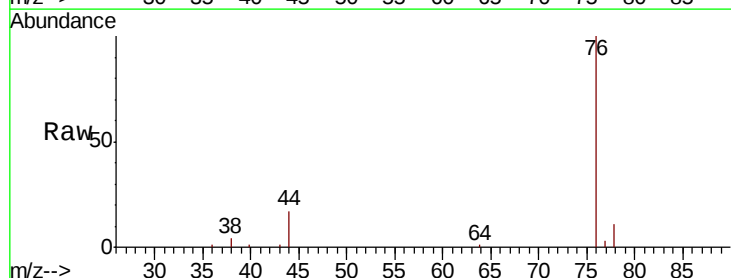
Acq: 03 Aug 2019 10:33

Tgt Ion: 76 Resp: 21015

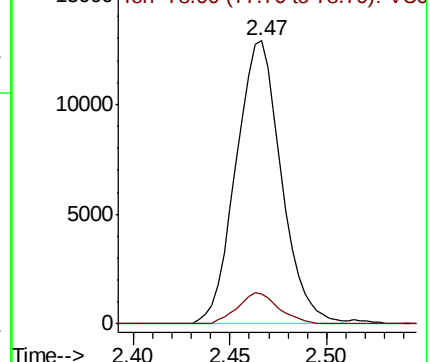
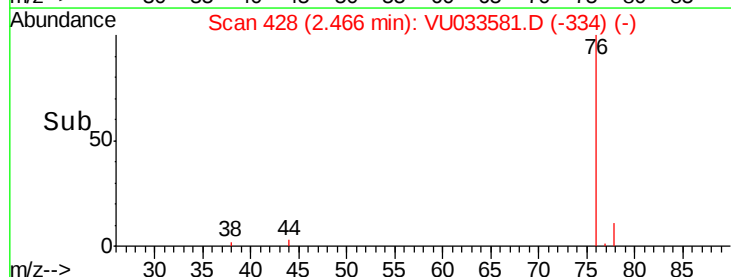
Ion Ratio Lower Upper

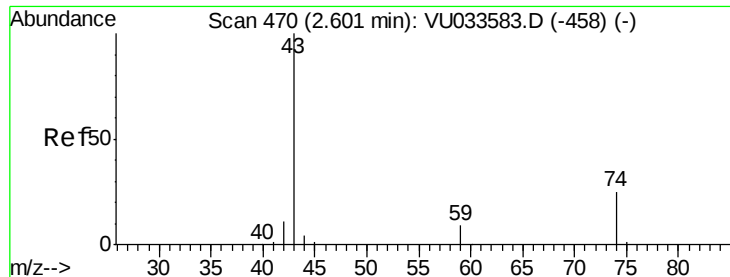
76 100

78 10.6 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VU033581.D (-334) (-)

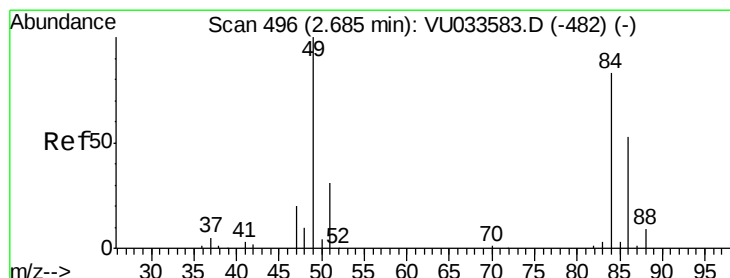
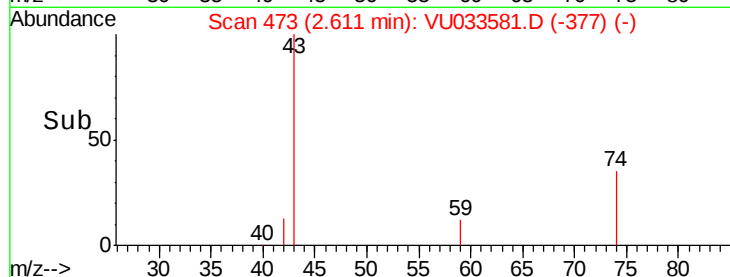
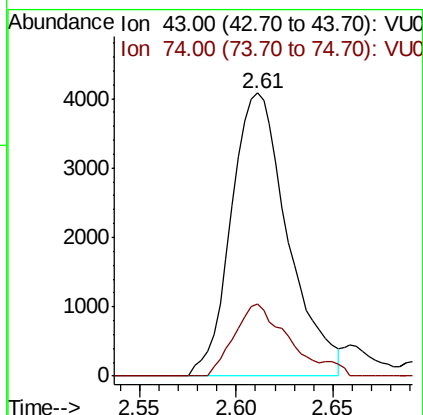
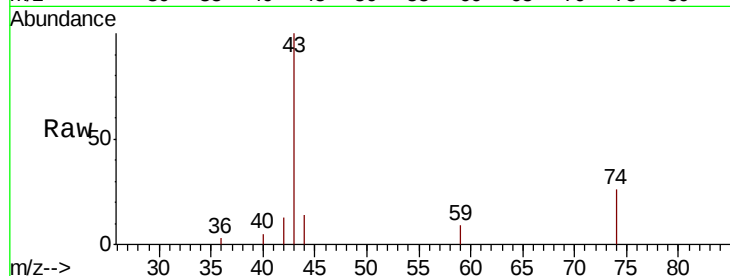




#15
Methyl Acetate
Concen: 4.047 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

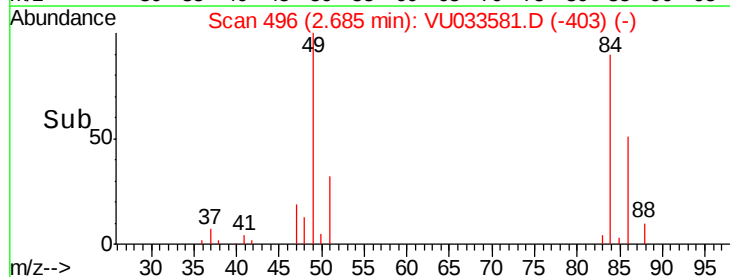
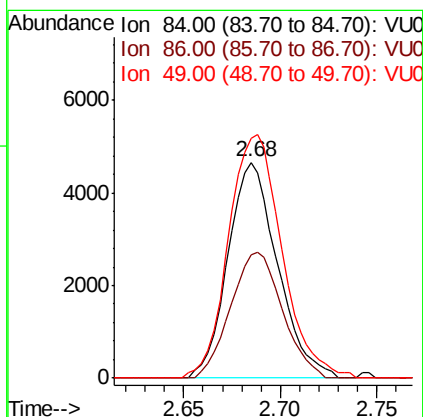
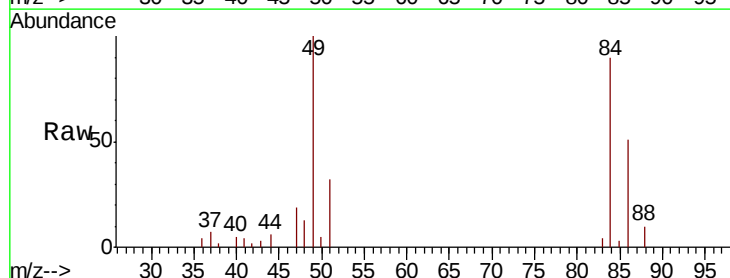
Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

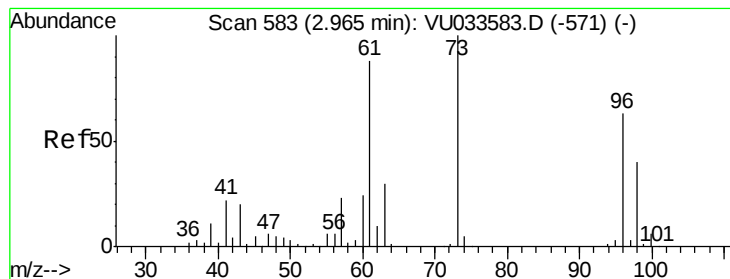
Tgt Ion: 43 Resp: 8326
Ion Ratio Lower Upper
43 100
74 23.4 19.9 29.9



#16
Methylene chloride
Concen: 4.346 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

Tgt Ion: 84 Resp: 8322
Ion Ratio Lower Upper
84 100
86 57.1 44.5 82.7
49 110.8 84.2 156.4





#17

trans-1,2-Dichloroethene

Concen: 4.201 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD00535

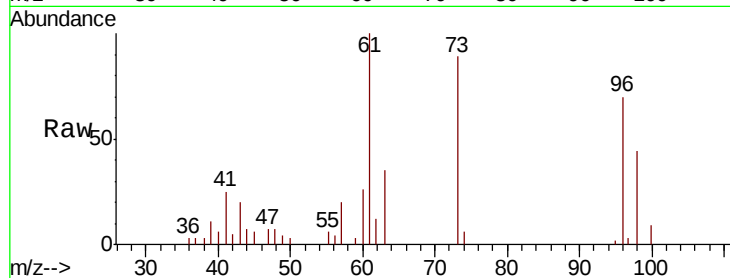
Tgt Ion: 96 Resp: 7339

Ion Ratio Lower Upper

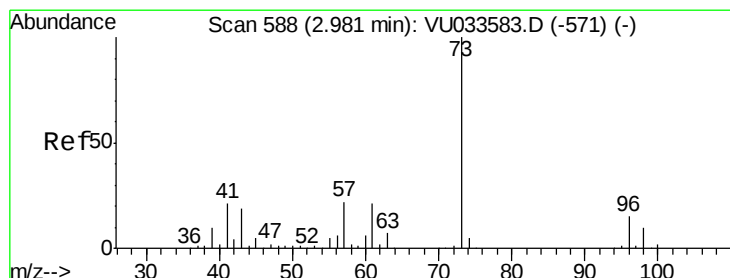
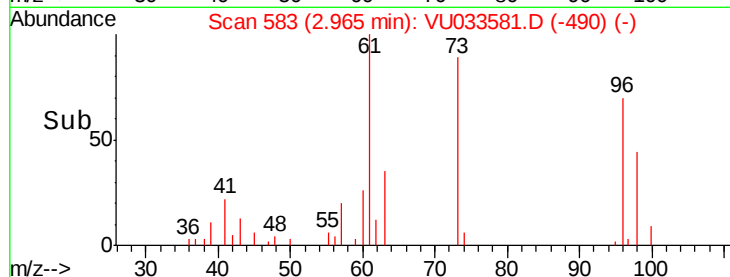
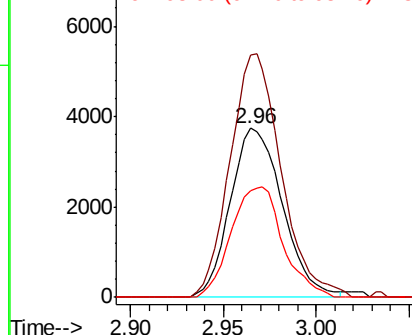
96 100

61 143.6 98.1 182.3

98 63.4 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 3.802 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

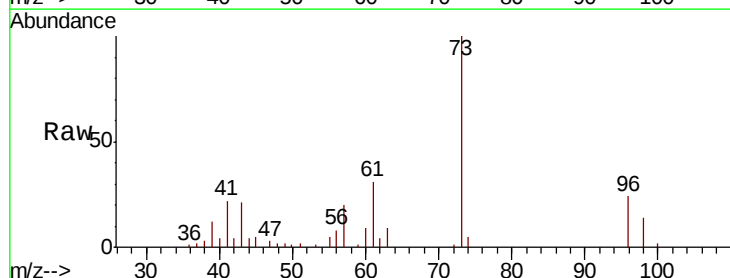
Tgt Ion: 73 Resp: 20387

Ion Ratio Lower Upper

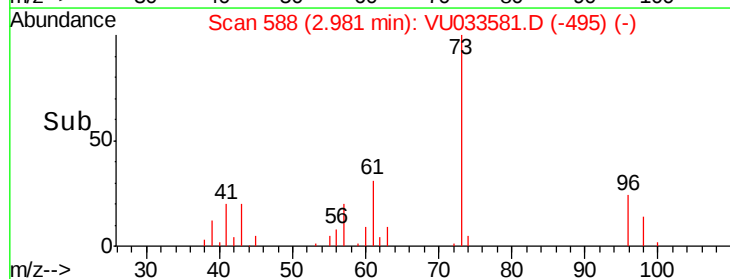
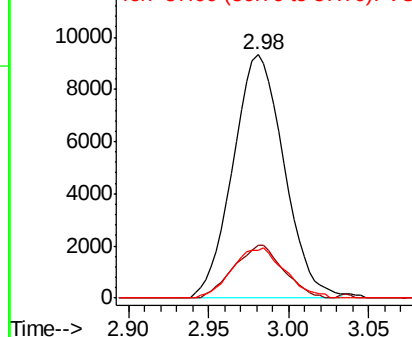
73 100

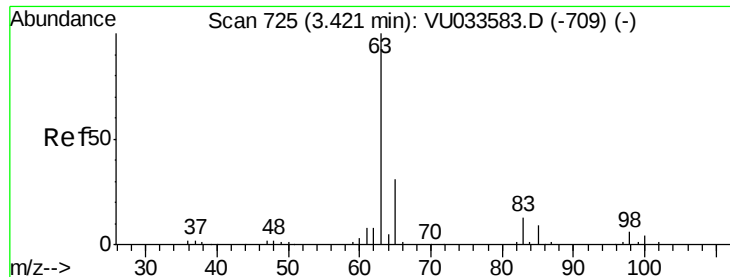
43 21.1 15.5 23.3

57 21.3 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

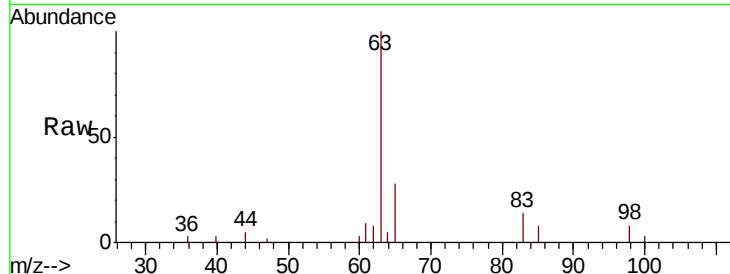




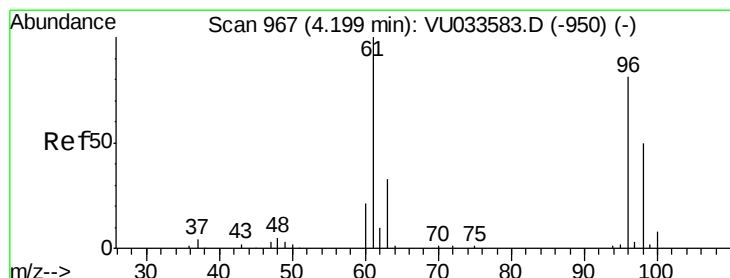
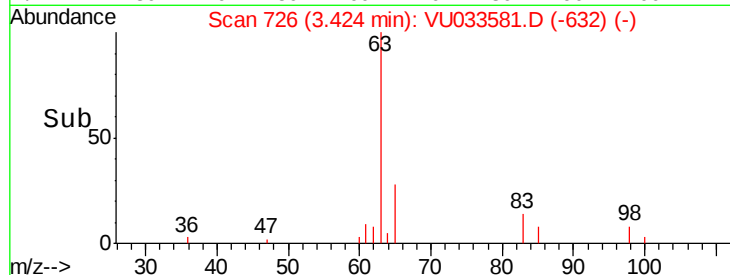
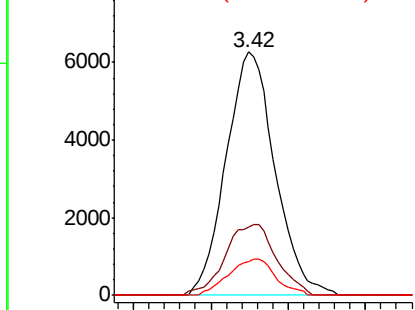
#19
 1,1-Dichloroethane
 Concen: 4.165 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00535

Tgt Ion: 63 Resp: 13750
 Ion Ratio Lower Upper
 63 100
 65 27.9 22.0 40.8
 83 14.0 8.9 16.5

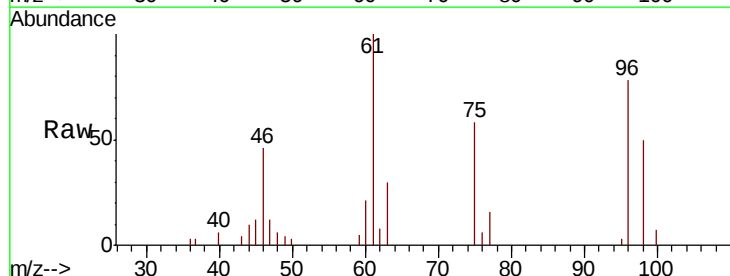


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

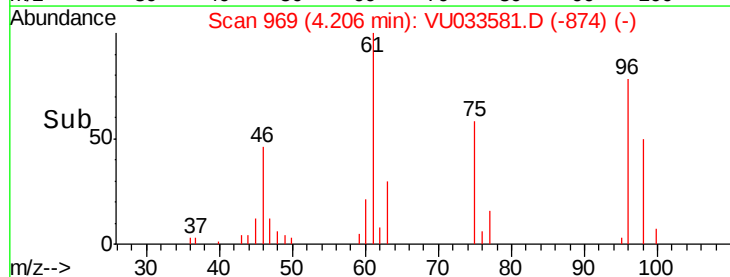
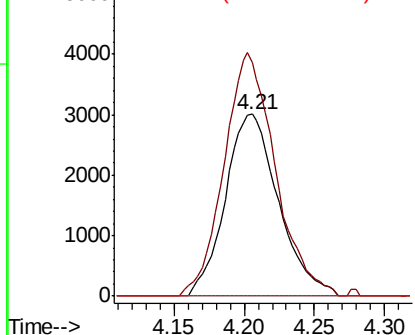


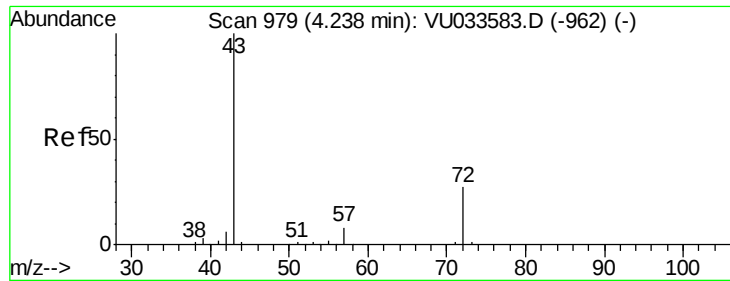
#20
 cis-1,2-Dichloroethene
 Concen: 4.014 ug/L
 RT: 4.21 min Scan# 969
 Delta R.T. 0.01 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Tgt Ion: 96 Resp: 7928
 Ion Ratio Lower Upper
 96 100
 61 128.3 87.4 162.4
 68 0.0 0.0 0.0



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

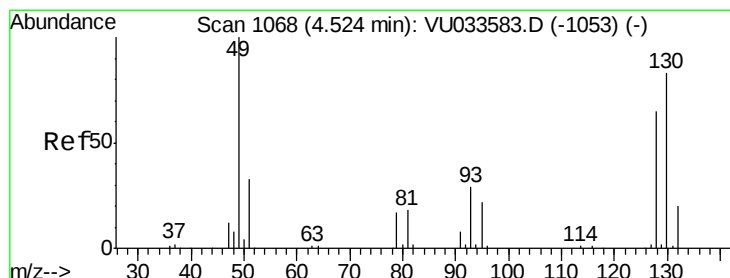
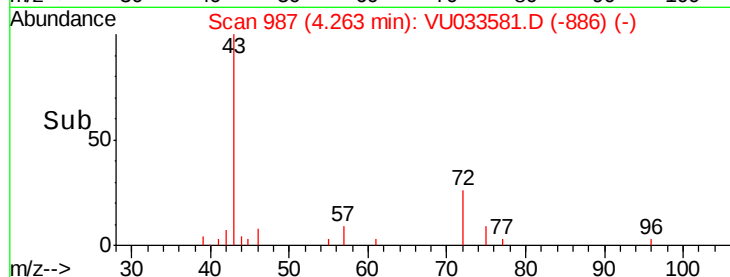
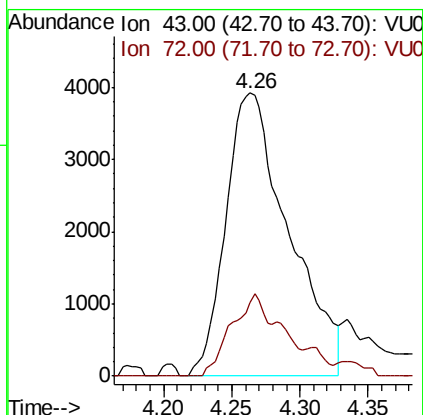
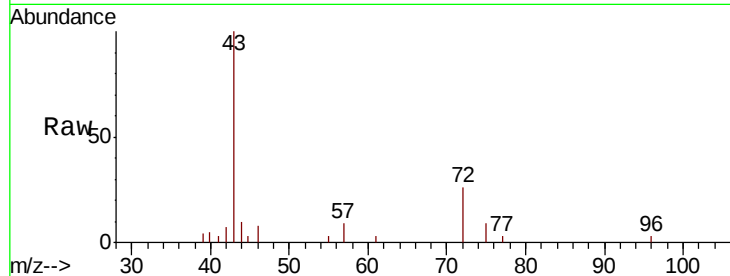




#22
2-Butanone
Concen: 8.157 ug/L
RT: 4.26 min Scan# 987
Delta R.T. 0.03 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

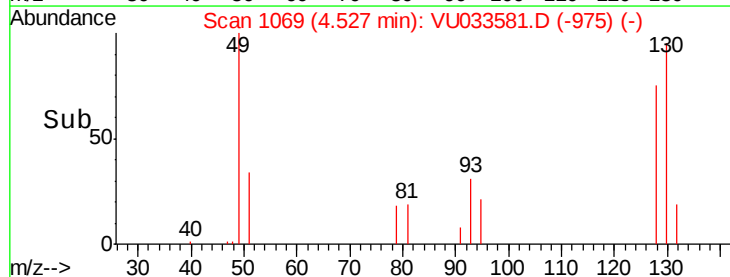
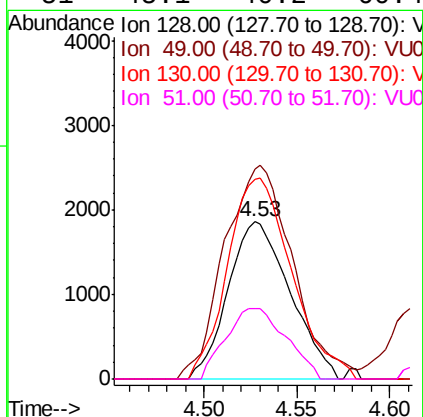
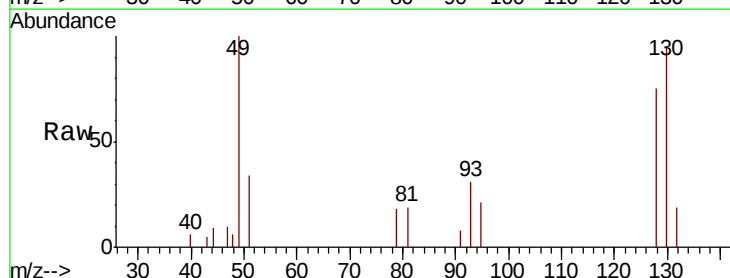
Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

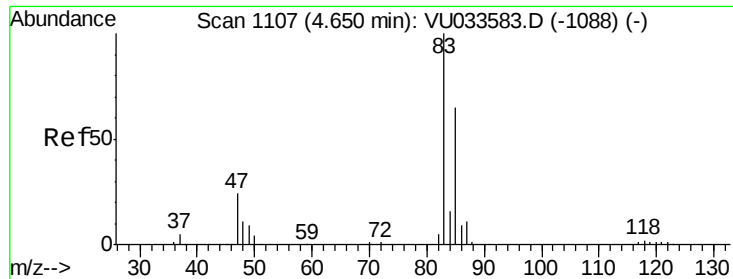
Tgt Ion: 43 Resp: 12541
Ion Ratio Lower Upper
43 100
72 16.5 14.4 43.4



#23
Bromochloromethane
Concen: 4.211 ug/L
RT: 4.53 min Scan# 1069
Delta R.T. 0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

Tgt Ion: 128 Resp: 4304
Ion Ratio Lower Upper
128 100
49 134.2 107.9 200.3
130 127.7 89.5 166.1
51 45.1 40.2 60.4

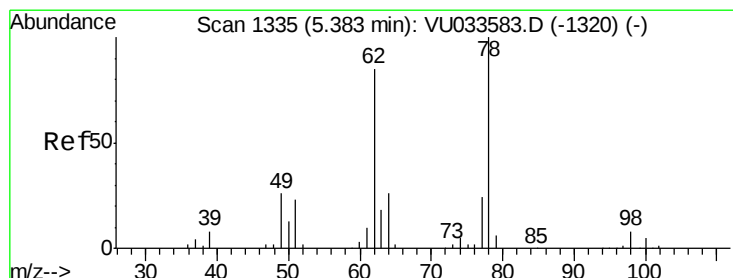
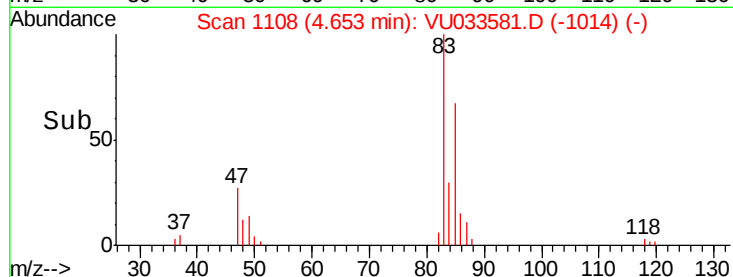
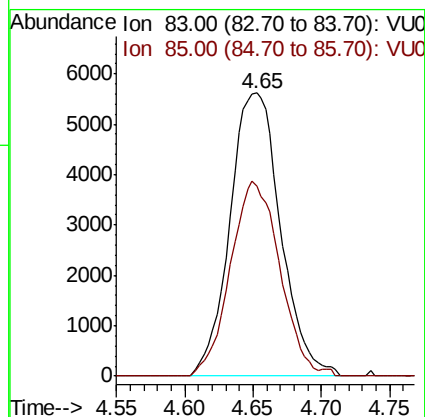
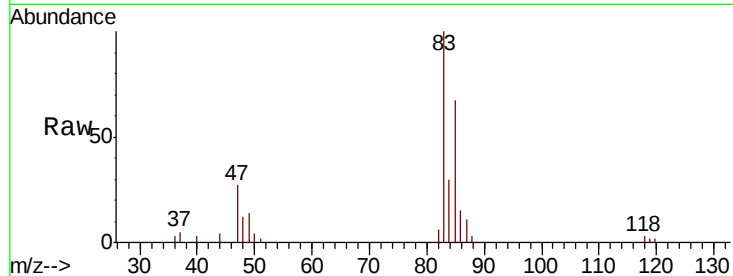




#25
Chloroform
Concen: 4.190 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

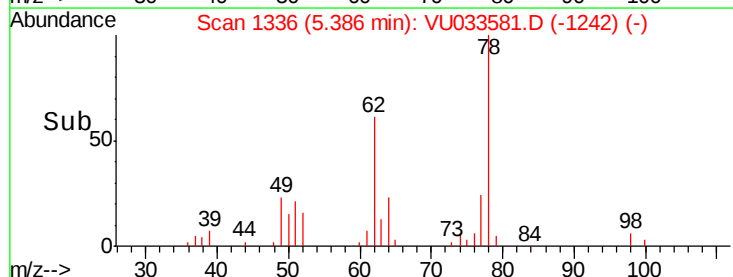
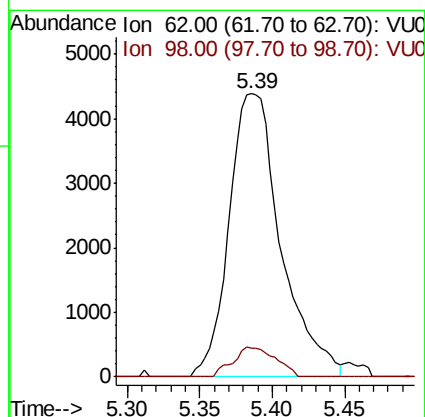
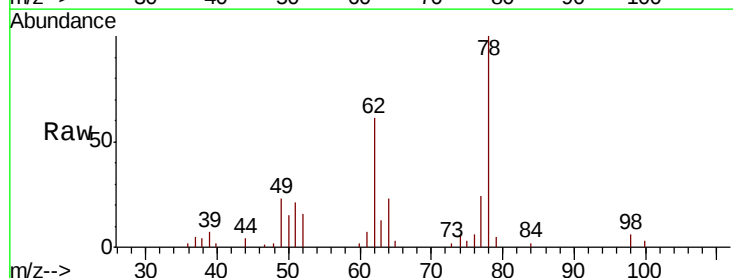
Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

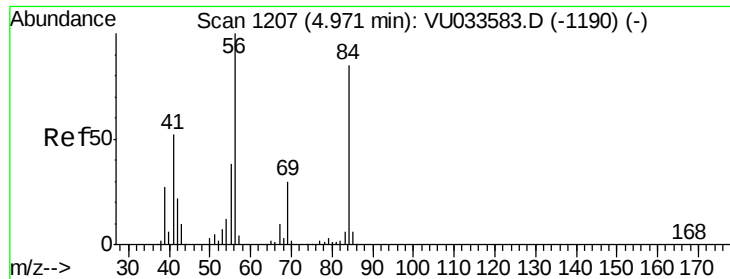
Tgt Ion: 83 Resp: 14526
Ion Ratio Lower Upper
83 100
85 67.1 45.6 84.8



#27
1,2-Dichloroethane
Concen: 4.064 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

Tgt Ion: 62 Resp: 10881
Ion Ratio Lower Upper
62 100
98 10.2 7.4 11.0

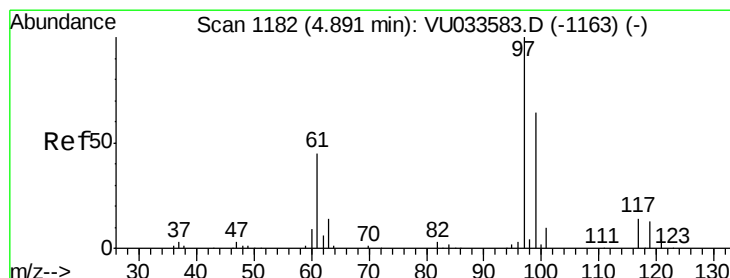
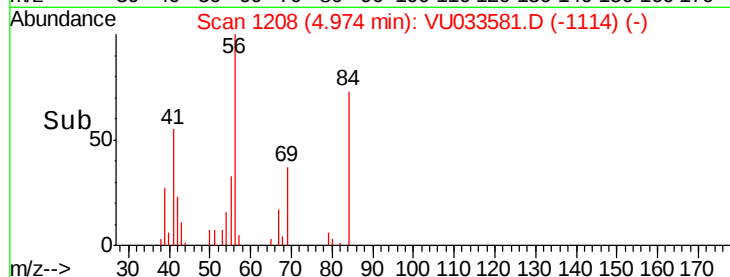
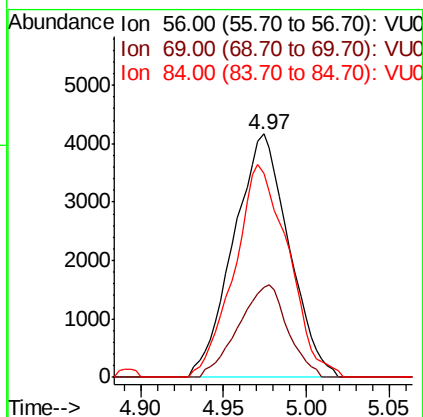
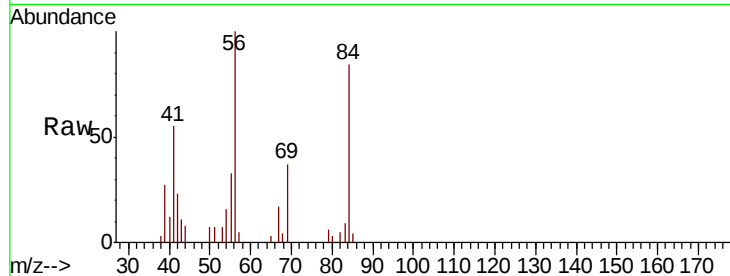




#29
Cyclohexane
Concen: 3.469 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

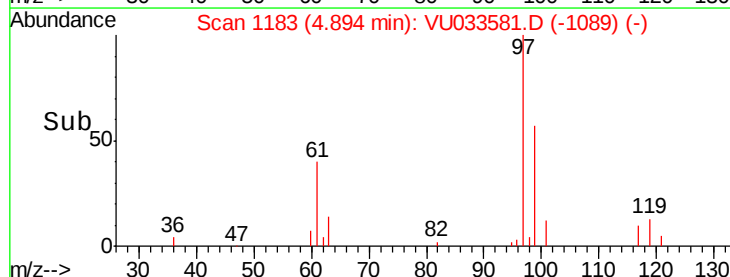
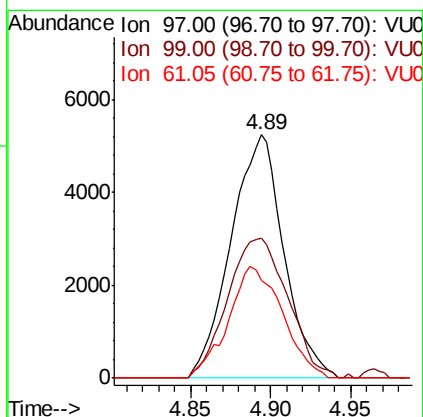
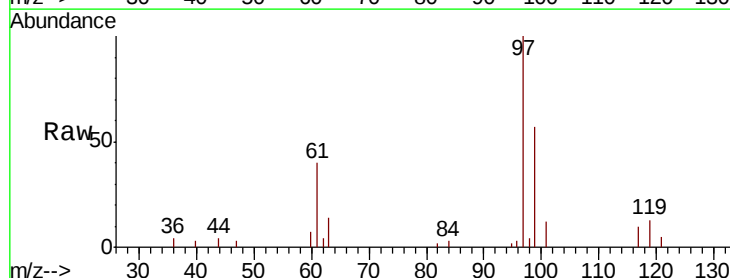
Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

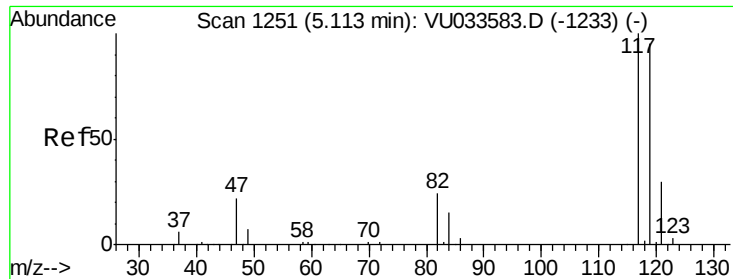
Tgt Ion: 56 Resp: 9660
Ion Ratio Lower Upper
56 100
69 33.8 24.6 36.8
84 85.3 69.8 104.6



#30
1,1,1-Trichloroethane
Concen: 4.020 ug/L
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

Tgt Ion: 97 Resp: 11871
Ion Ratio Lower Upper
97 100
99 65.6 51.5 77.3
61 47.0 36.1 54.1

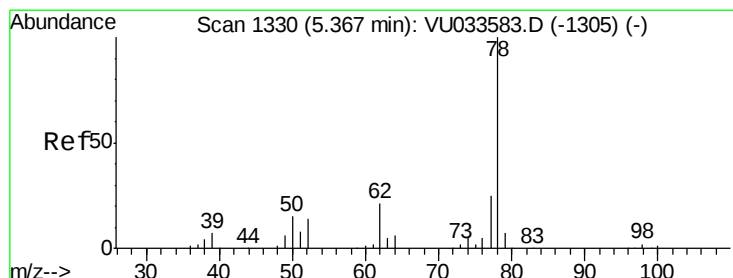
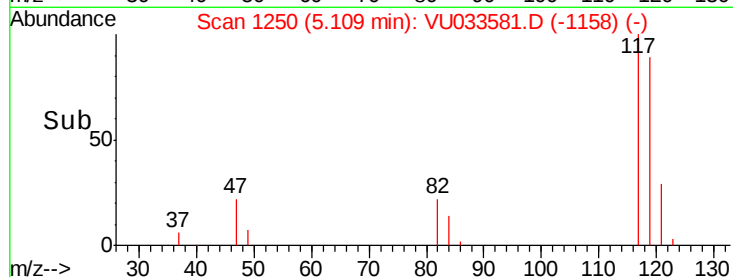
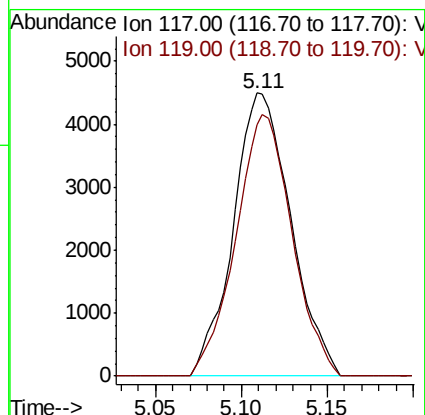
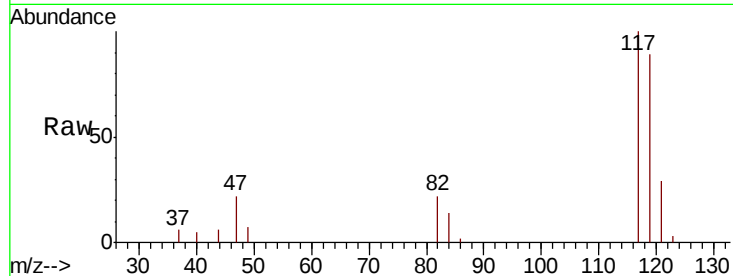




#31
Carbon tetrachloride
Concen: 4.054 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

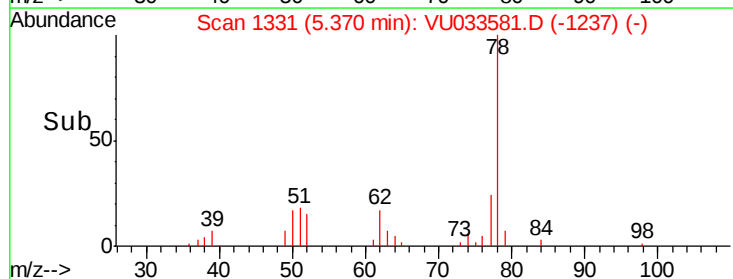
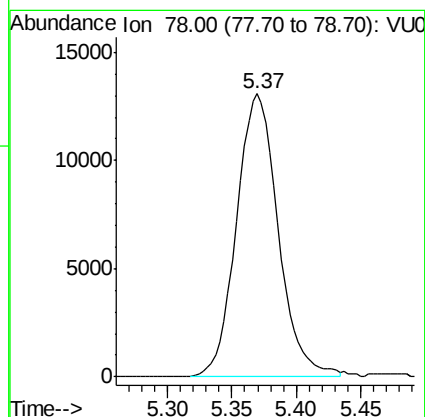
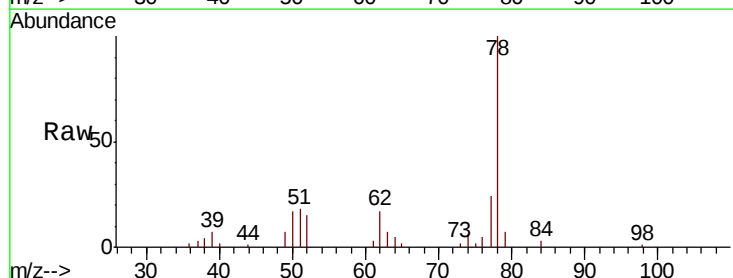
Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

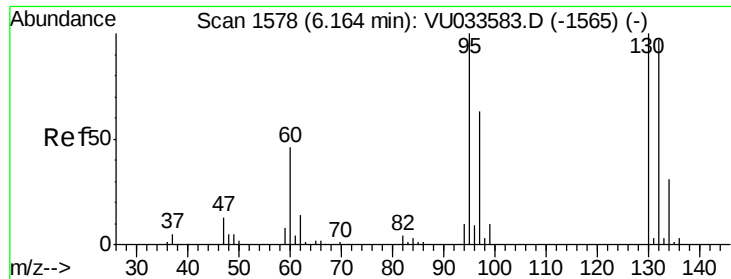
Tgt Ion:117 Resp: 10450
Ion Ratio Lower Upper
117 100
119 90.2 76.9 115.3



#33
Benzene
Concen: 3.985 ug/L
RT: 5.37 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

Tgt Ion: 78 Resp: 29473

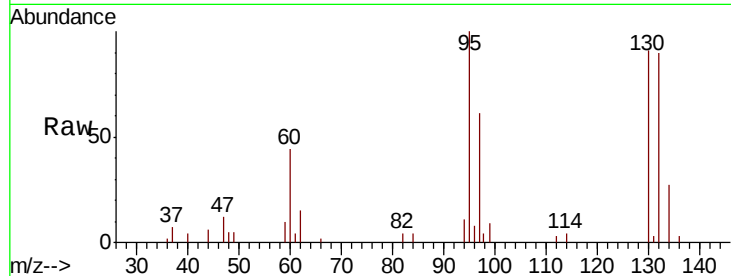




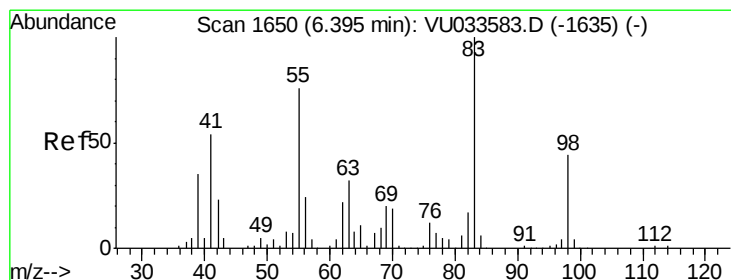
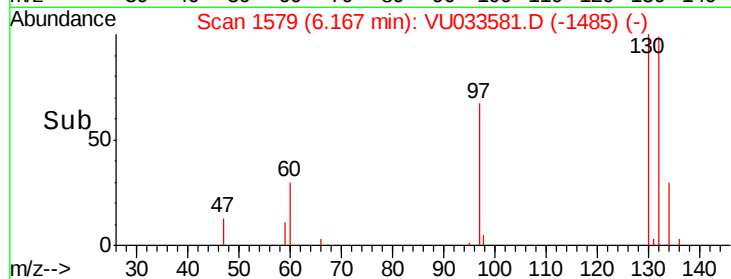
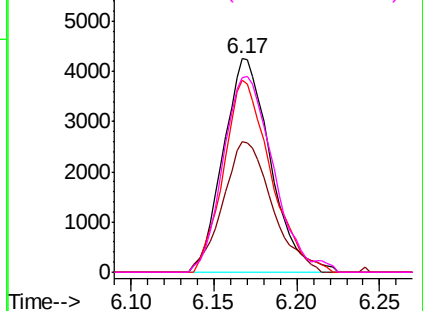
#34
 Trichloroethene
 Concen: 4.320 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00535

Tgt Ion: 95 Resp: 8417
 Ion Ratio Lower Upper
 95 100
 97 60.9 44.2 82.2
 132 90.0 68.3 126.8
 130 91.4 70.1 130.3

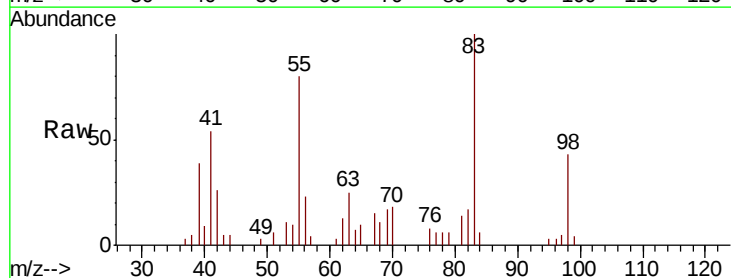


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

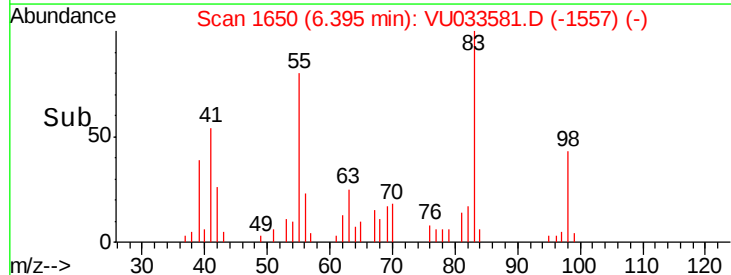
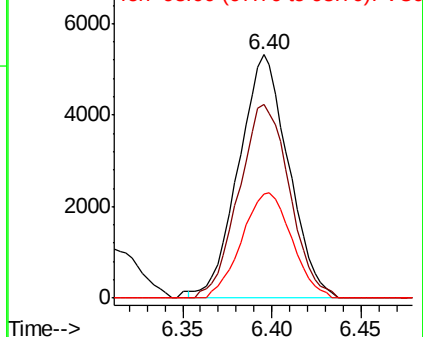


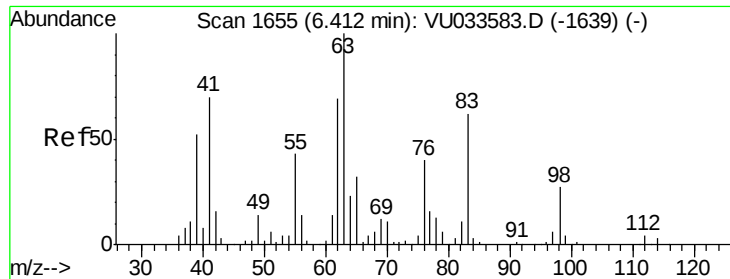
#35
 Methylcyclohexane
 Concen: 3.407 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Tgt Ion: 83 Resp: 10338
 Ion Ratio Lower Upper
 83 100
 55 81.2 60.7 91.1
 98 43.4 35.4 53.2



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

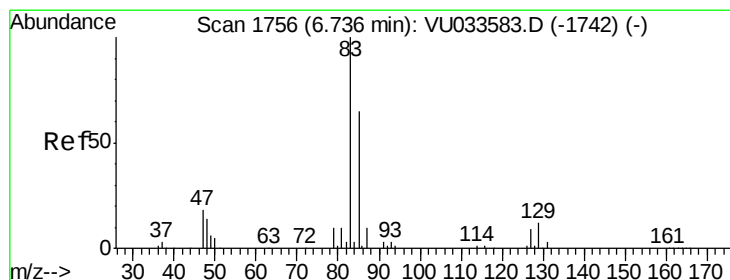
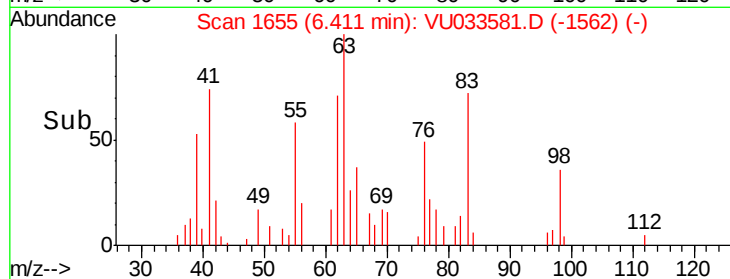
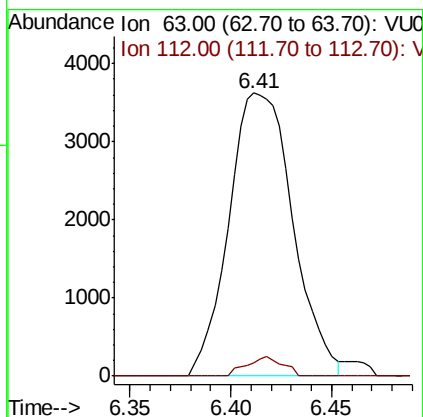
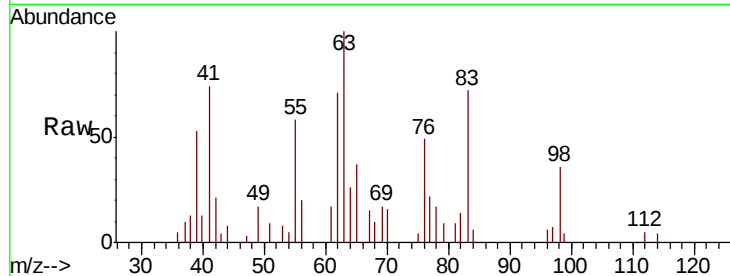




#37
 1,2-Dichloropropane
 Concen: 4.015 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

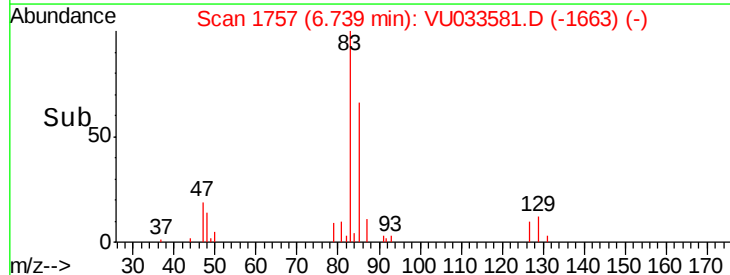
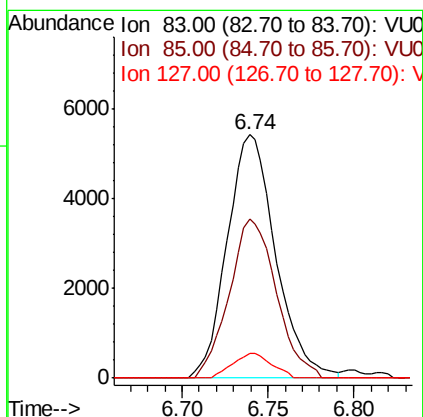
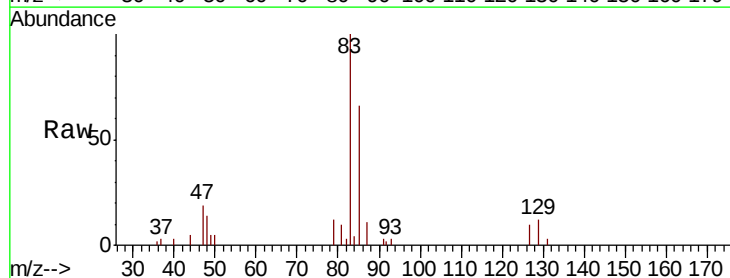
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00535

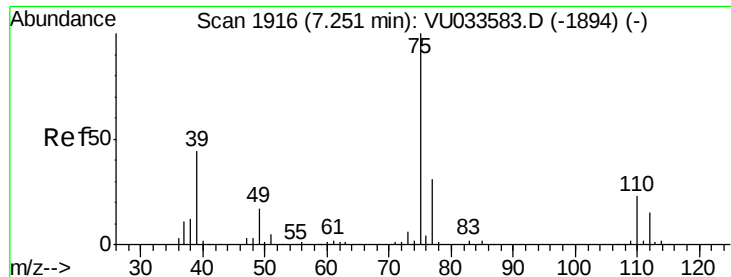
Tgt Ion: 63 Resp: 8019
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.4



#38
 Bromodichloromethane
 Concen: 4.141 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Tgt Ion: 83 Resp: 10649
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.5 84.5
 127 10.0 6.9 10.3

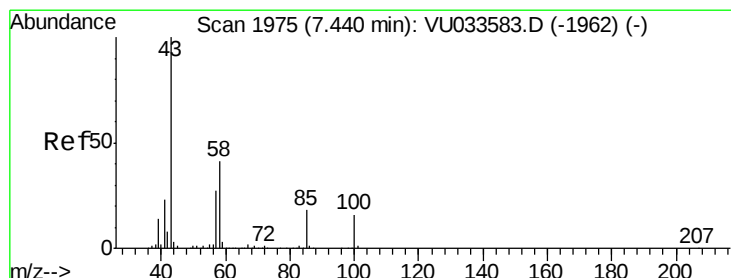
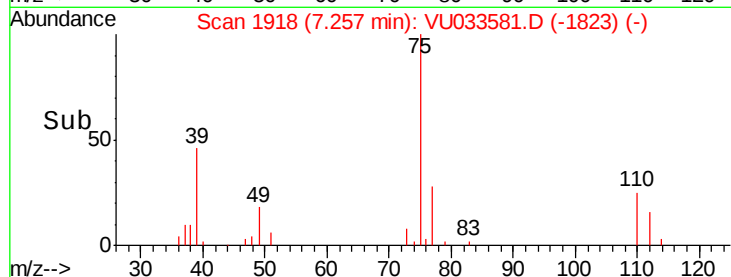
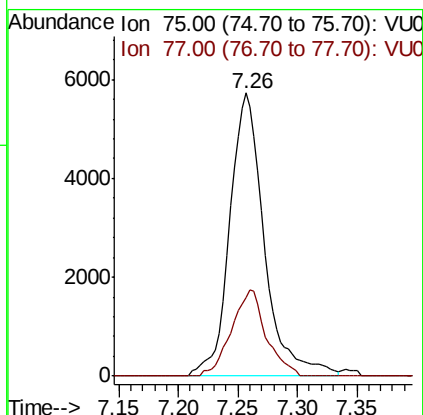
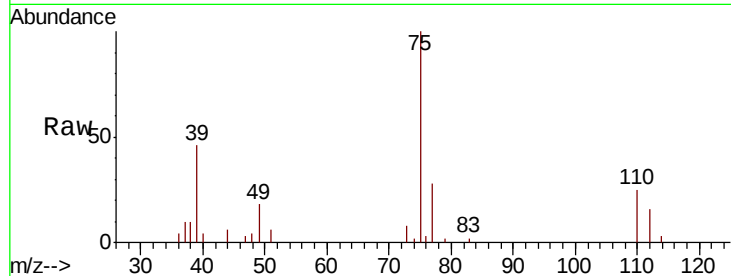




#39
 cis-1,3-Dichloropropene
 Concen: 3.725 ug/L
 RT: 7.26 min Scan# 1918
 Delta R.T. 0.01 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

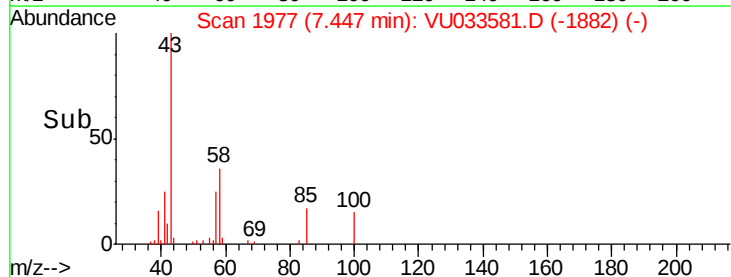
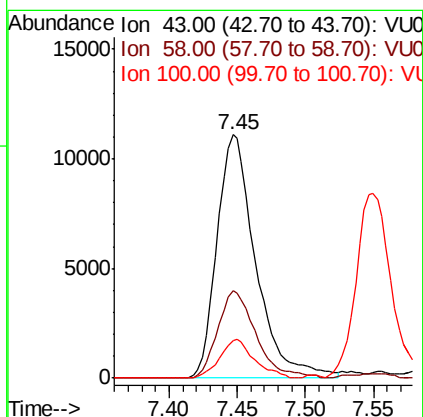
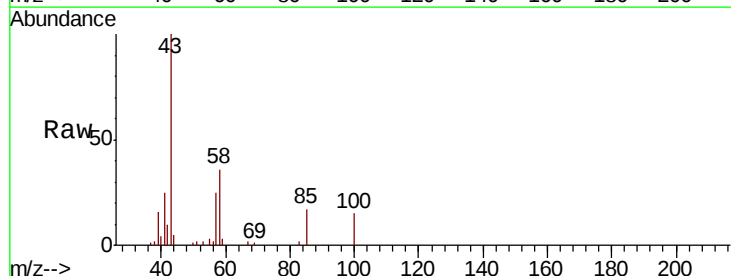
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00535

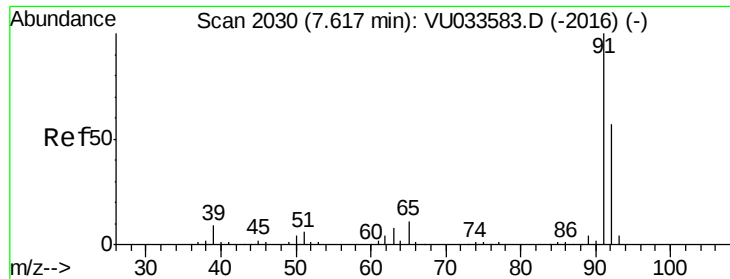
Tgt Ion: 75 Resp: 11539
 Ion Ratio Lower Upper
 75 100
 77 27.8 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 7.898 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Tgt Ion: 43 Resp: 21899
 Ion Ratio Lower Upper
 43 100
 58 35.4 33.0 49.4
 100 13.5 12.4 18.6





#42

Toluene

Concen: 3.650 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

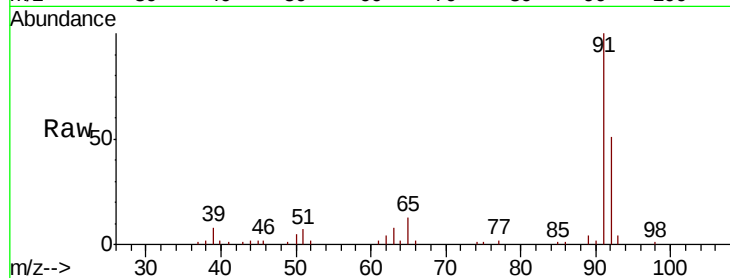
VSTD00535

Tgt Ion: 91 Resp: 28974

Ion Ratio Lower Upper

91 100

92 51.0 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033581.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033581.D (-2016) (-)

7.62

15000

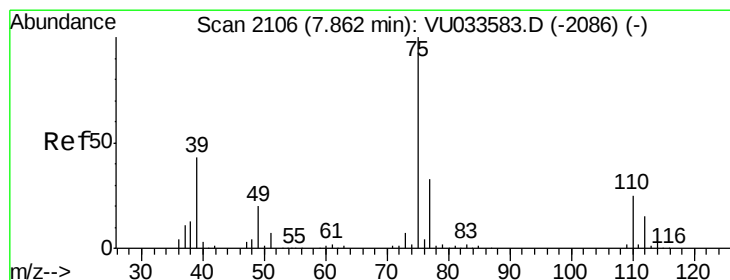
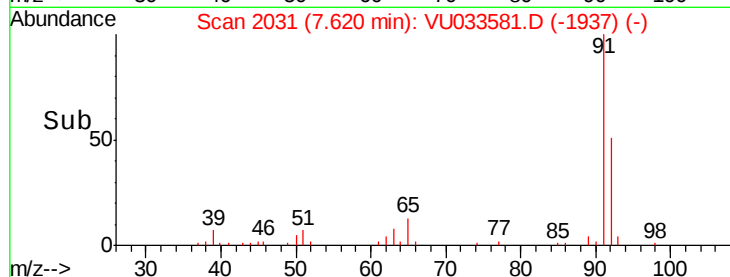
10000

5000

0

Time-->

7.55 7.60 7.65 7.70



#44

trans-1,3-Dichloropropene

Concen: 3.640 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033581.D

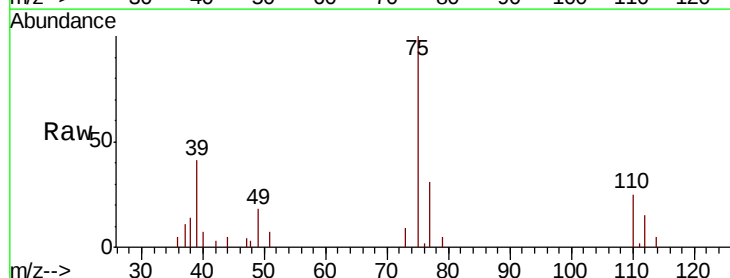
Acq: 03 Aug 2019 10:33

Tgt Ion: 75 Resp: 10150

Ion Ratio Lower Upper

75 100

77 31.3 23.4 43.4



Abundance Ion 75.00 (74.70 to 75.70): VU033581.D (-2086) (-)

Ion 77.00 (76.70 to 77.70): VU033581.D (-2086) (-)

7.87

6000

5000

4000

3000

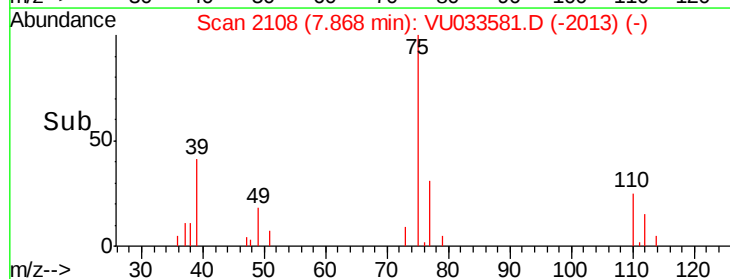
2000

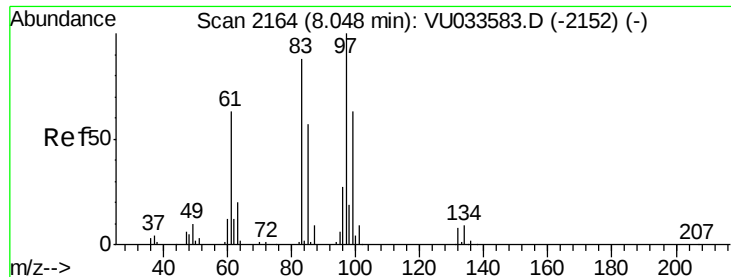
1000

0

Time-->

7.80 7.85 7.90 7.95

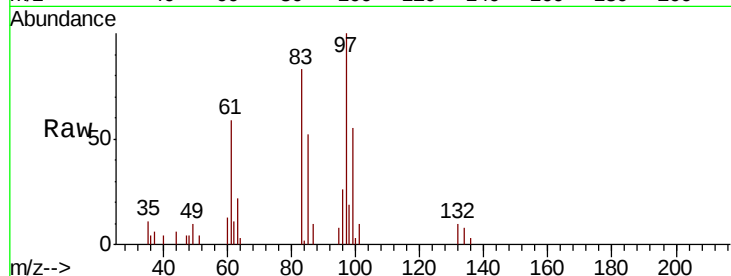




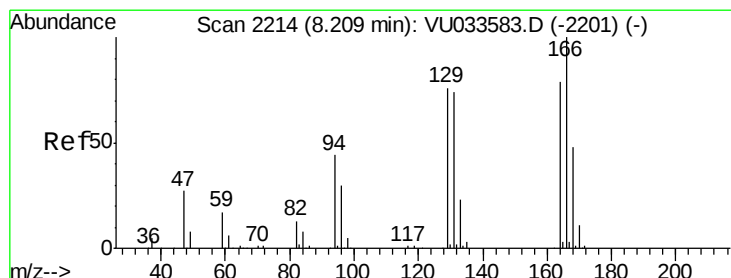
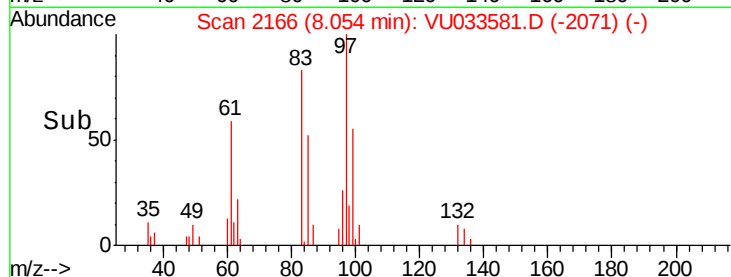
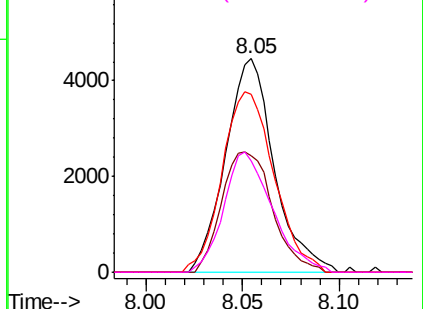
#45
 1,1,2-Trichloroethane
 Concen: 4.136 ug/L
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.01 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00535

Tgt Ion:	97	Resp:	7806
Ion	Ratio	Lower	Upper
97	100		
99	54.6	43.9	81.5
83	83.1	61.9	114.9
85	52.3	39.8	73.8



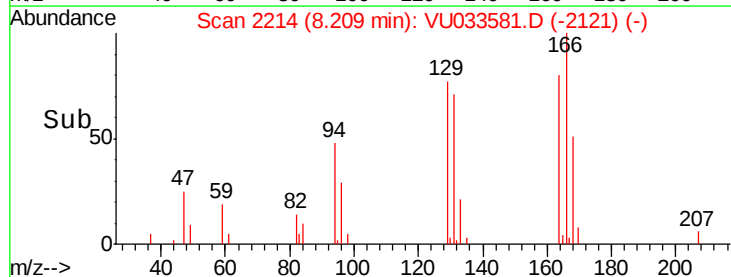
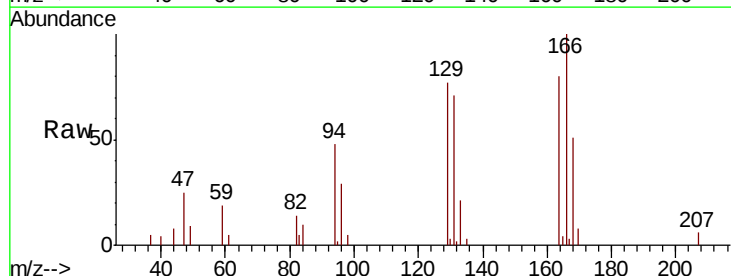
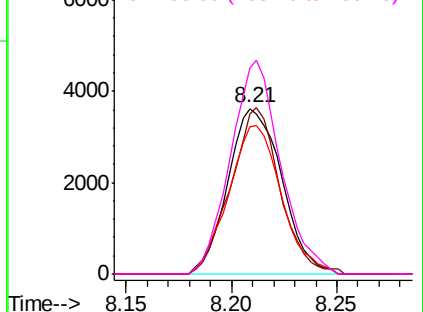
Abundance Ion 97.00 (96.70 to 97.70): VU033581.D (-2166) (-)

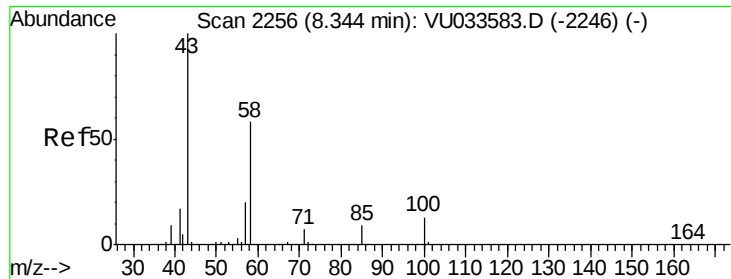


#46
 Tetrachloroethene
 Concen: 4.061 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Tgt Ion:	164	Resp:	6432
Ion	Ratio	Lower	Upper
164	100		
129	96.3	67.0	124.4
131	88.6	65.0	120.6
166	124.3	88.1	163.7

Abundance Ion 164.00 (163.70 to 164.70): VU033581.D (-2214) (-)

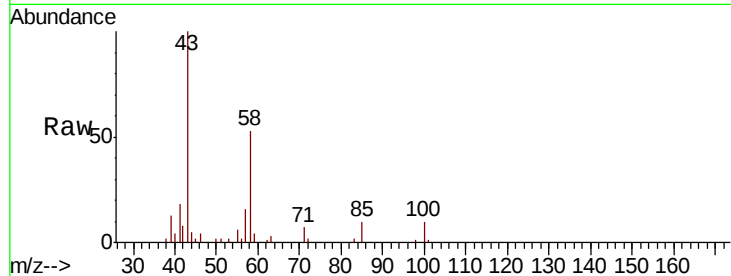




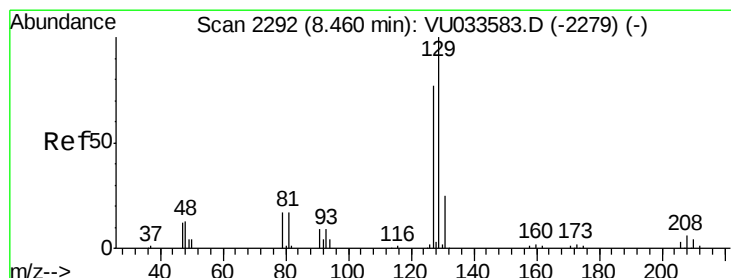
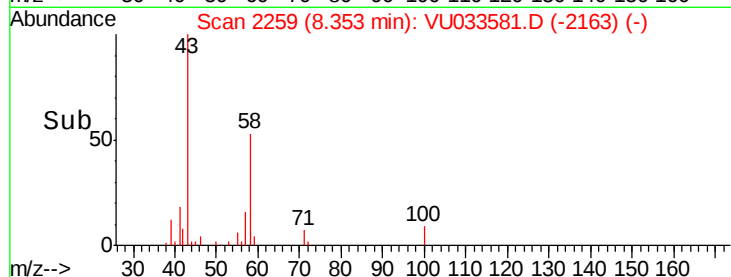
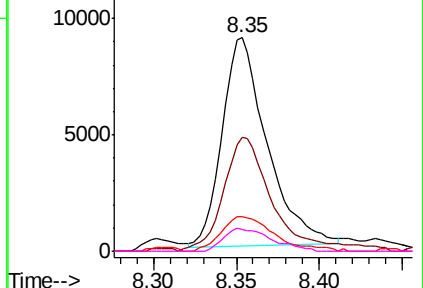
#48
2-Hexanone
Concen: 7.590 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. 0.01 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

Tgt Ion:	43	Resp:	16945
Ion	Ratio	Lower	Upper
43	100		
58	58.0	45.9	68.9
57	19.6	16.2	24.2
100	11.5	9.9	14.9

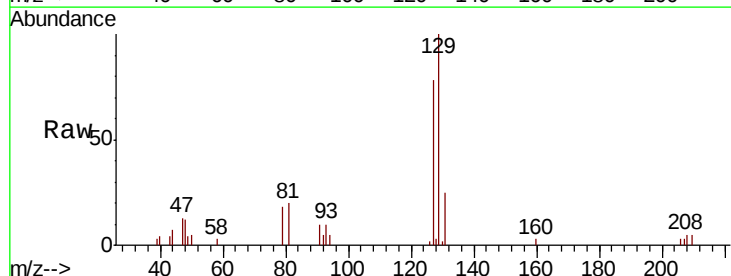


Abundance Ion 43.00 (42.70 to 43.70): VU033581.D (-2163) (-)
Ion 58.00 (57.70 to 58.70): VU033581.D (-2163) (-)
Ion 57.00 (56.70 to 57.70): VU033581.D (-2163) (-)
Ion 100.00 (99.70 to 100.70): VU033581.D (-2163) (-)

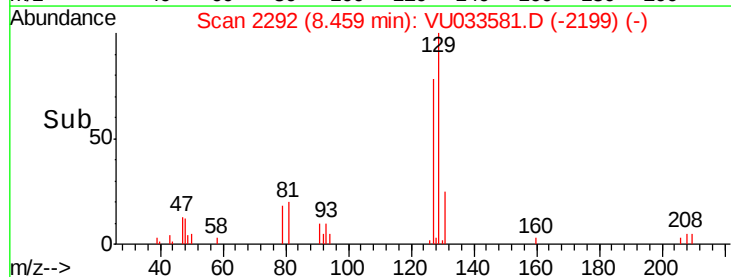
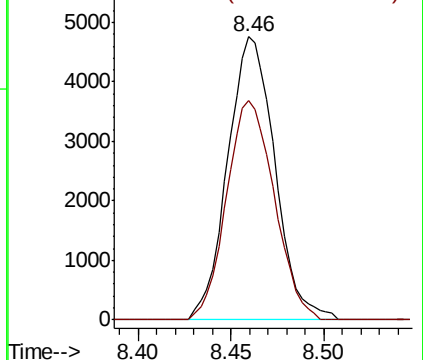


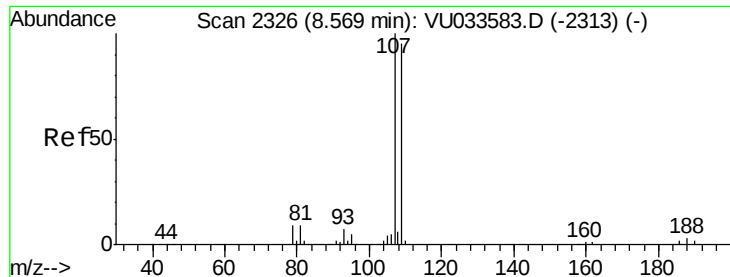
#49
Dibromochloromethane
Concen: 3.916 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

Tgt Ion:	129	Resp:	8393
Ion	Ratio	Lower	Upper
129	100		
127	77.7	53.7	99.7



Abundance Ion 129.00 (128.70 to 129.70): VU033581.D (-2199) (-)
Ion 127.00 (126.70 to 127.70): VU033581.D (-2199) (-)

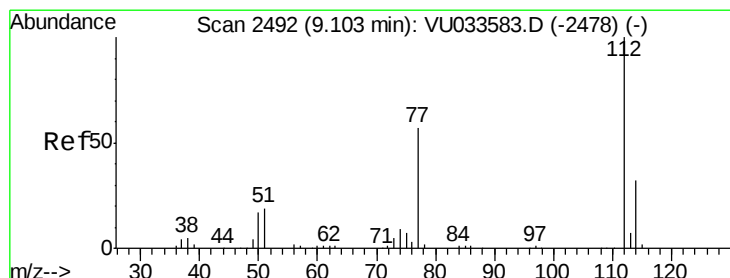
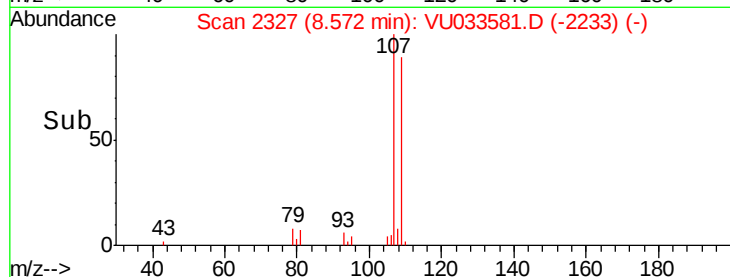
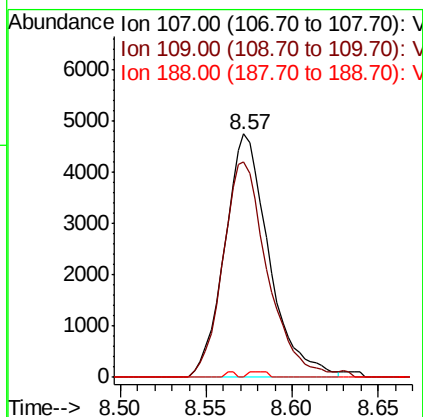
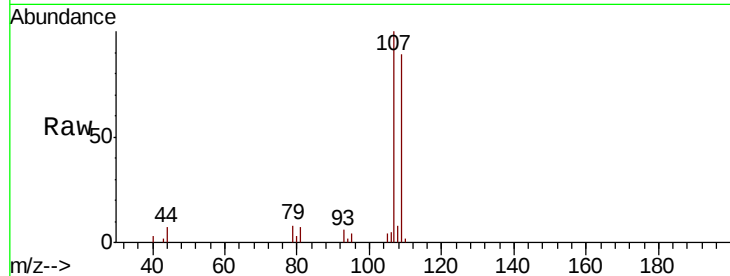




#50
1,2-Dibromoethane
Concen: 4.116 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

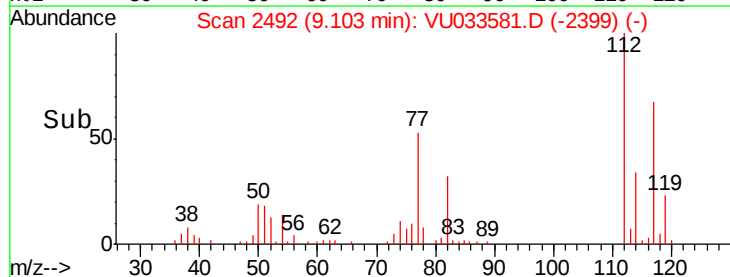
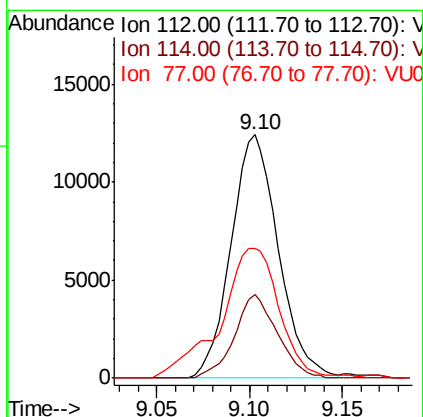
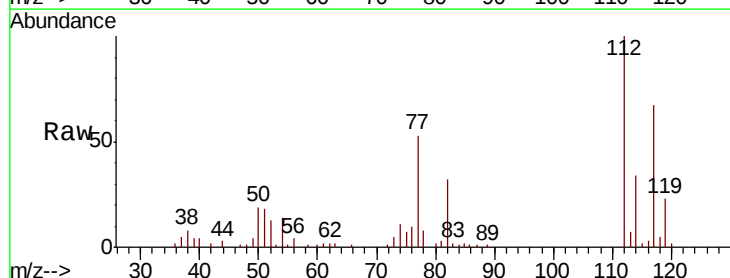
Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

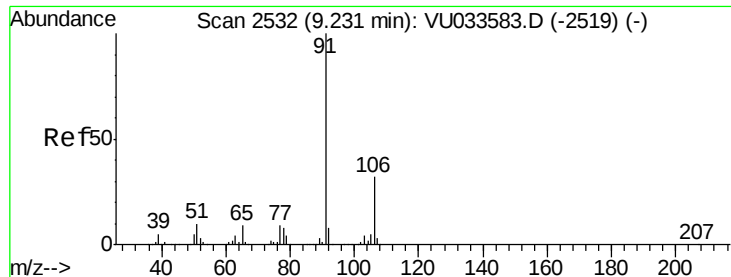
Tgt Ion:107 Resp: 8553
Ion Ratio Lower Upper
107 100
109 88.6 66.6 123.6
188 0.0 2.6 4.0#



#51
Chlorobenzene
Concen: 4.238 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033581.D
Acq: 03 Aug 2019 10:33

Tgt Ion:112 Resp: 22012
Ion Ratio Lower Upper
112 100
114 34.2 22.3 41.3
77 53.3 46.3 69.5





#52

Ethylbenzene

Concen: 3.593 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

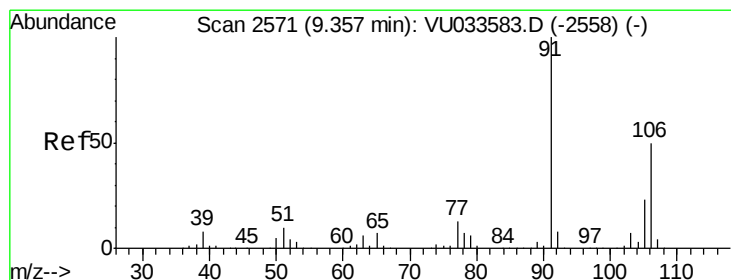
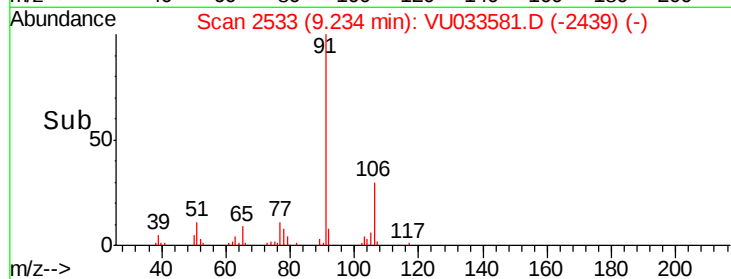
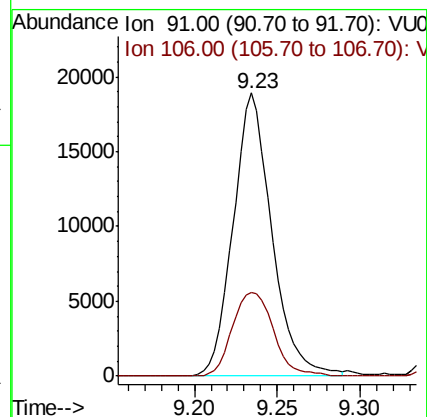
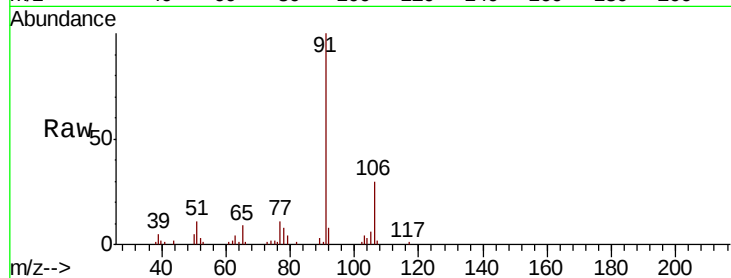
VSTD00535

Tgt Ion: 91 Resp: 30714

Ion Ratio Lower Upper

91 100

106 29.7 22.1 41.1



#53

m,p-Xylene

Concen: 3.222 ug/L

RT: 9.36 min Scan# 2573

Delta R.T. 0.01 min

Lab File: VU033581.D

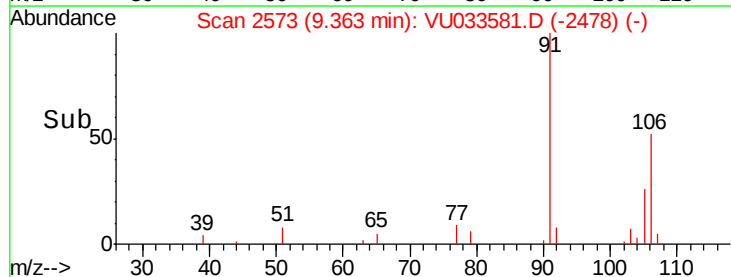
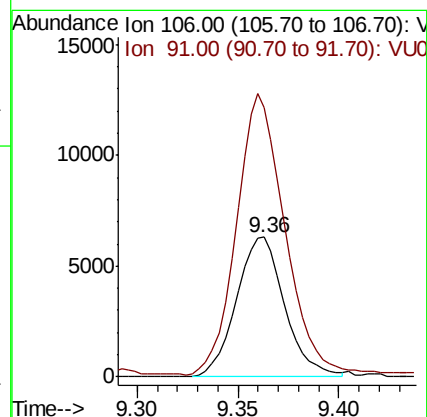
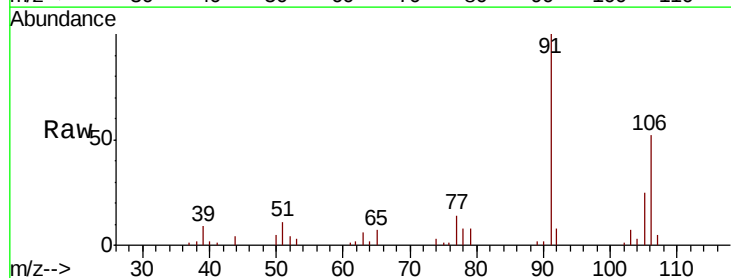
Acq: 03 Aug 2019 10:33

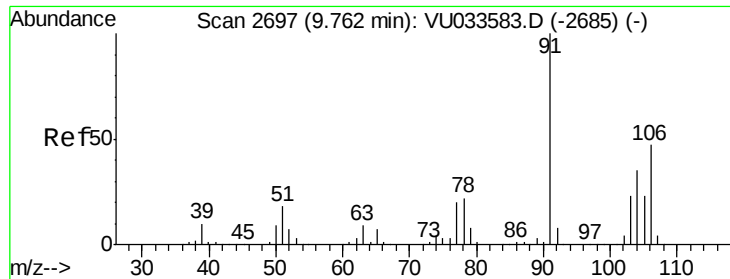
Tgt Ion: 106 Resp: 10602

Ion Ratio Lower Upper

106 100

91 193.1 141.2 262.2





#54

o-xylene

Concen: 3.392 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

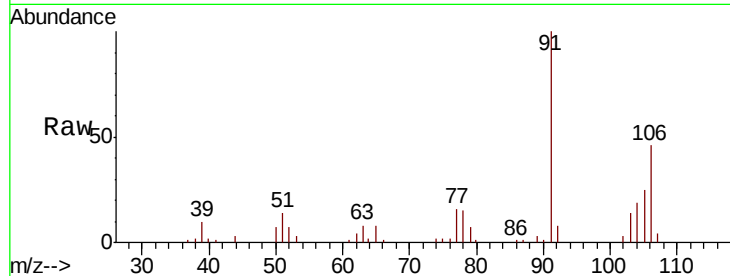
VSTD00535

Tgt Ion:106 Resp: 10765

Ion Ratio Lower Upper

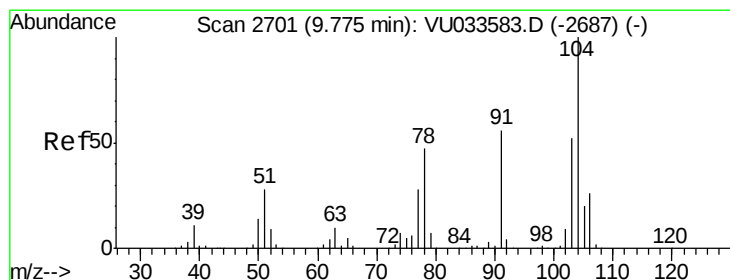
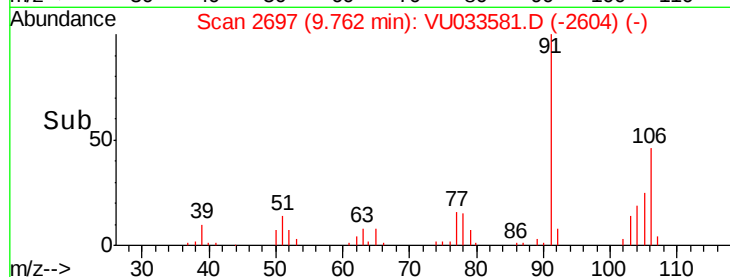
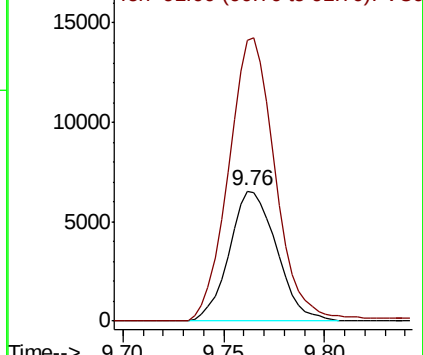
106 100

91 216.3 148.9 276.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 3.222 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.01 min

Lab File: VU033581.D

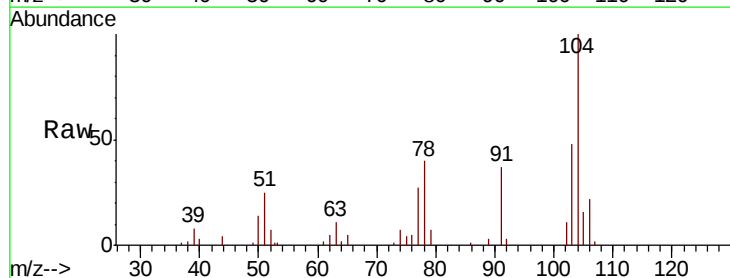
Acq: 03 Aug 2019 10:33

Tgt Ion:104 Resp: 17382

Ion Ratio Lower Upper

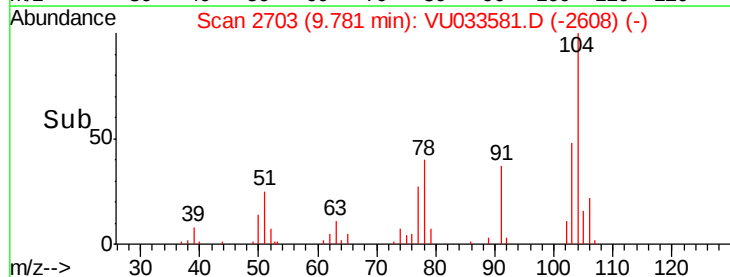
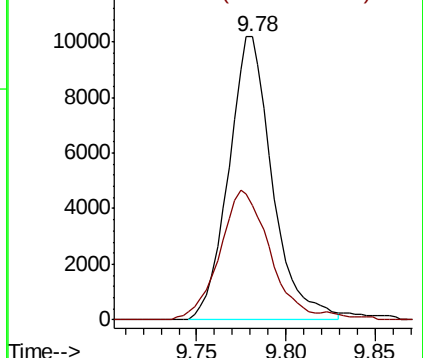
104 100

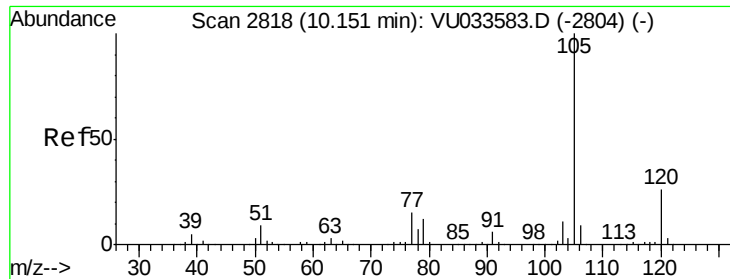
78 40.4 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 3.396 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD00535

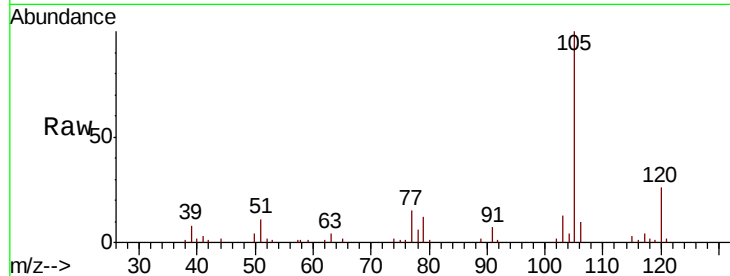
Tgt Ion: 105 Resp: 28224

Ion Ratio Lower Upper

105 100

120 25.6 21.1 31.7

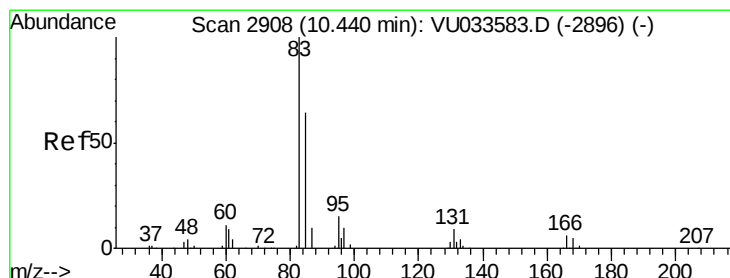
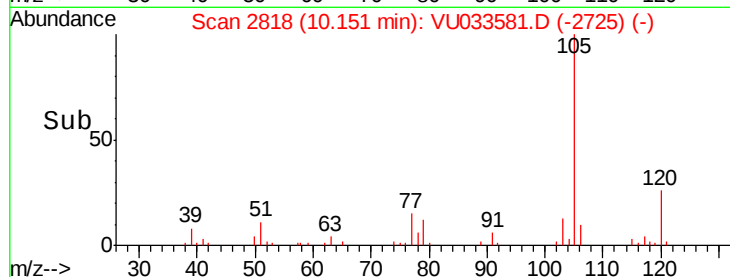
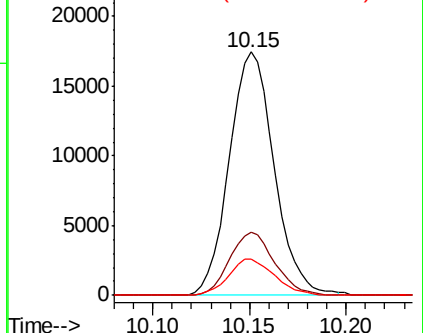
77 15.1 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.208 ug/L

RT: 10.44 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

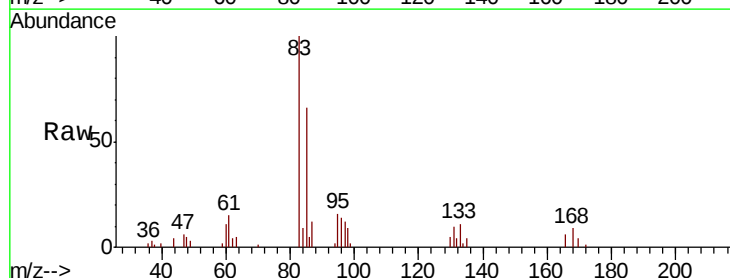
Tgt Ion: 83 Resp: 14353

Ion Ratio Lower Upper

83 100

85 66.1 45.1 83.9

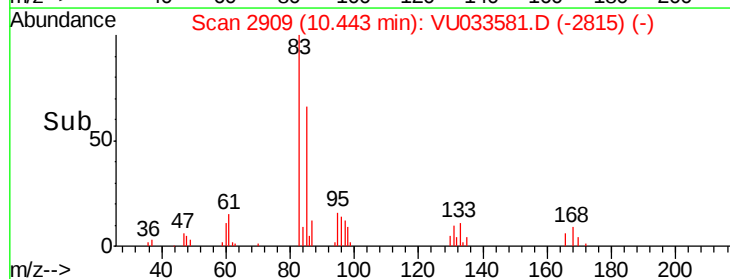
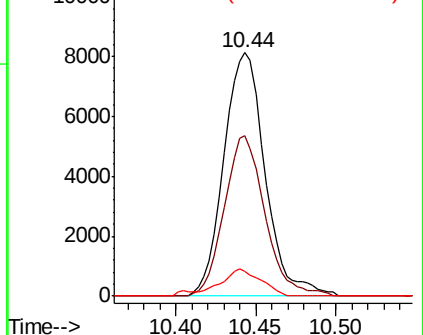
131 10.1 7.4 11.2

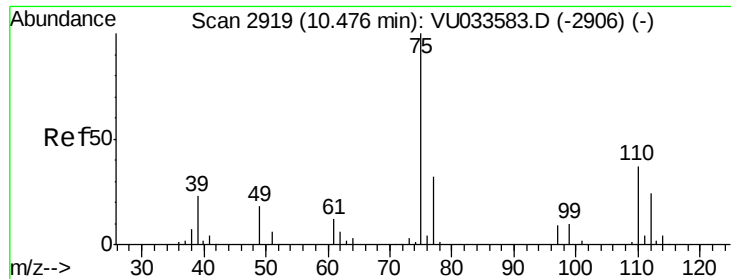


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

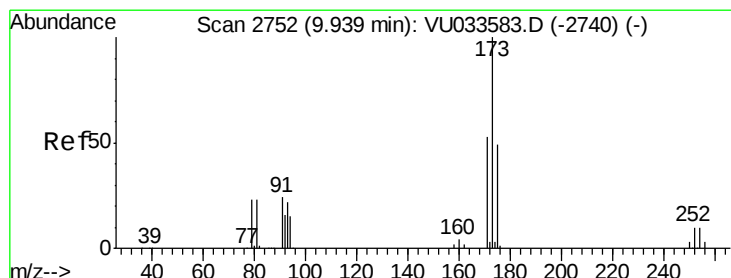
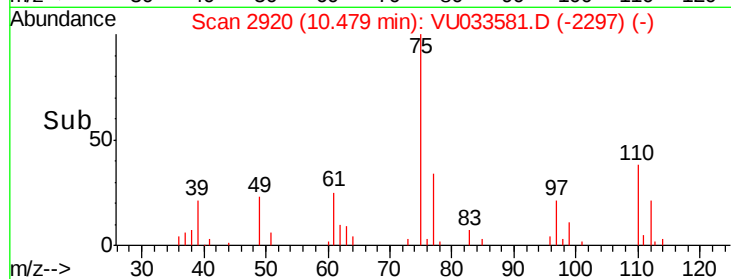
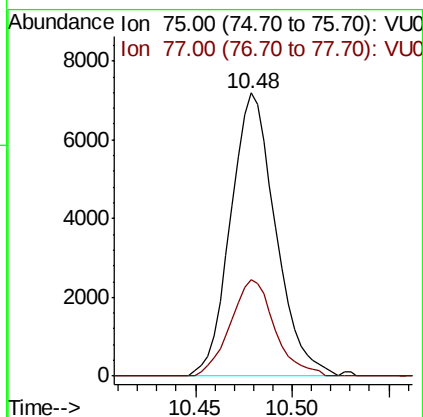
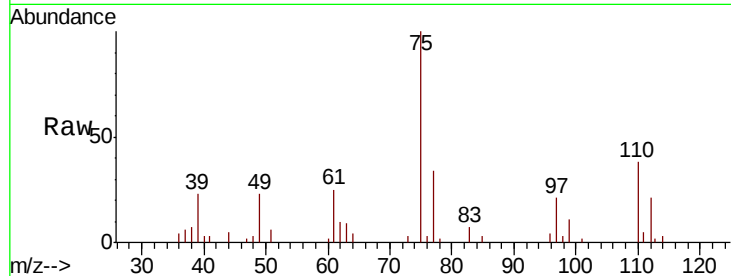




#59
 1,2,3-Trichloropropane
 Concen: 4.404 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

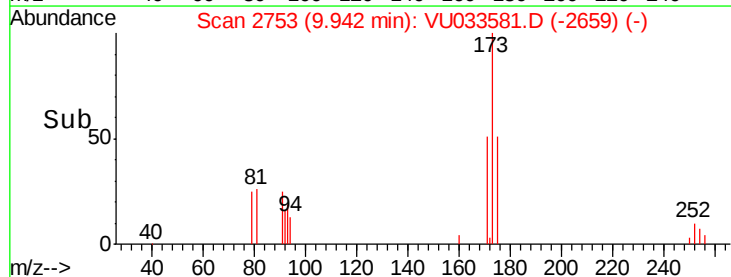
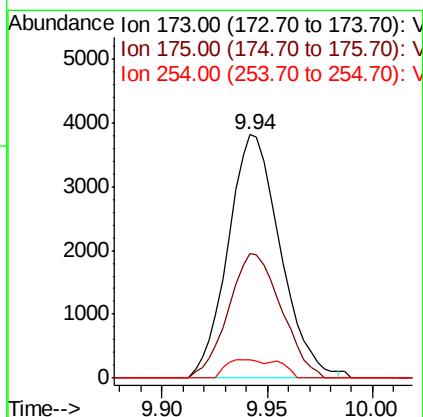
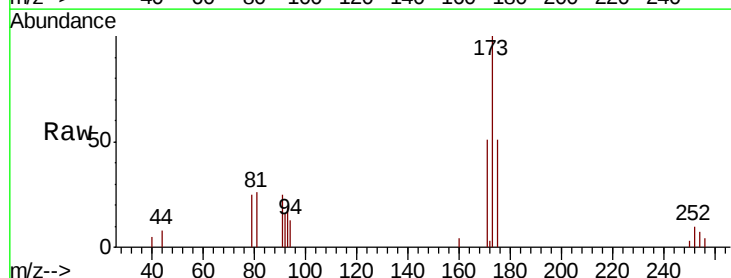
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00535

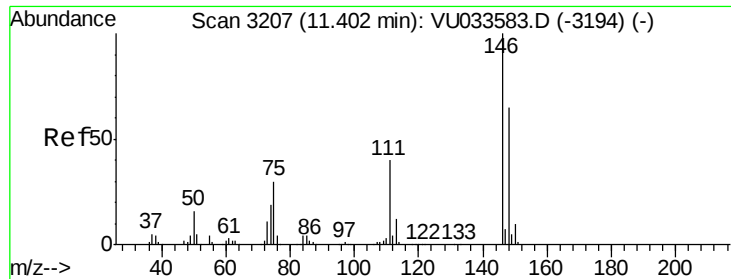
Tgt Ion: 75 Resp: 11611
 Ion Ratio Lower Upper
 75 100
 77 33.7 25.1 37.7



#61
 Bromoform
 Concen: 4.172 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Tgt Ion: 173 Resp: 6558
 Ion Ratio Lower Upper
 173 100
 175 51.6 39.5 59.3
 254 5.2 7.5 11.3#





#62

1,3-Dichlorobenzene

Concen: 4.145 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD00535

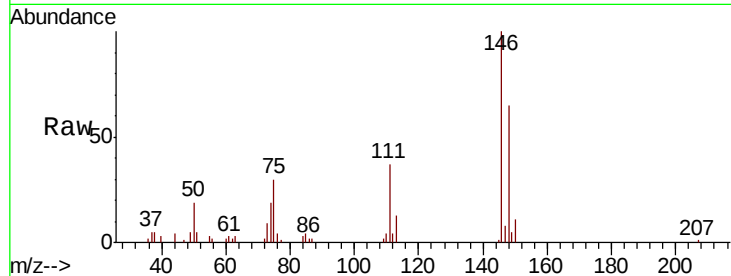
Tgt Ion:146 Resp: 16534

Ion Ratio Lower Upper

146 100

111 37.5 27.7 51.5

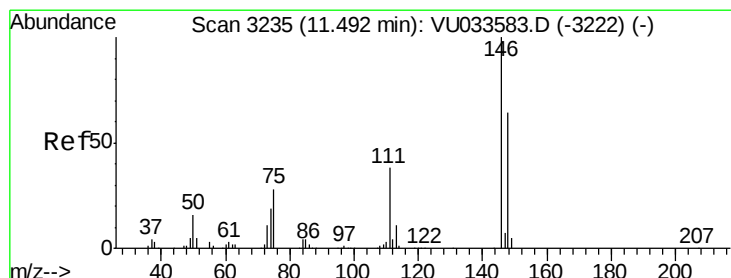
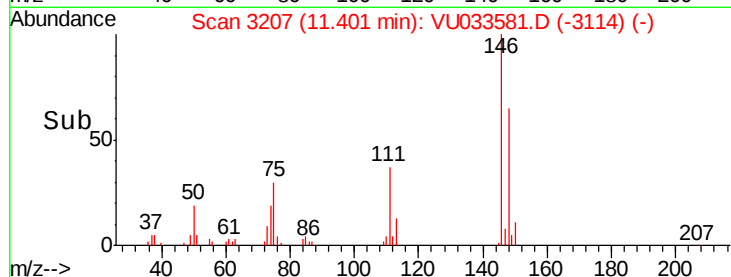
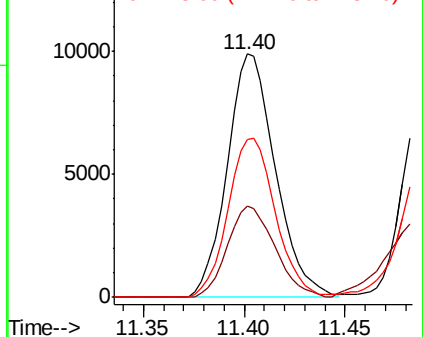
148 65.0 45.2 84.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.355 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

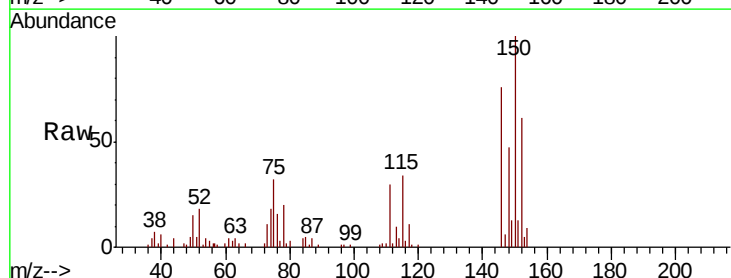
Tgt Ion:146 Resp: 18079

Ion Ratio Lower Upper

146 100

111 39.5 26.8 49.8

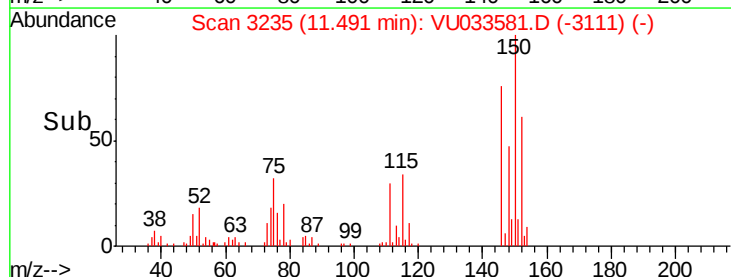
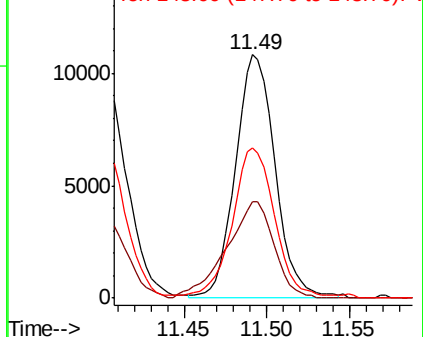
148 61.6 45.0 83.6

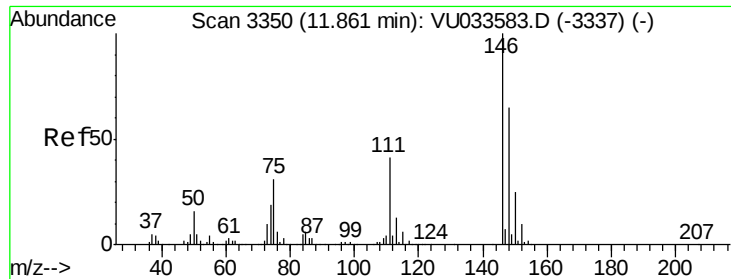


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

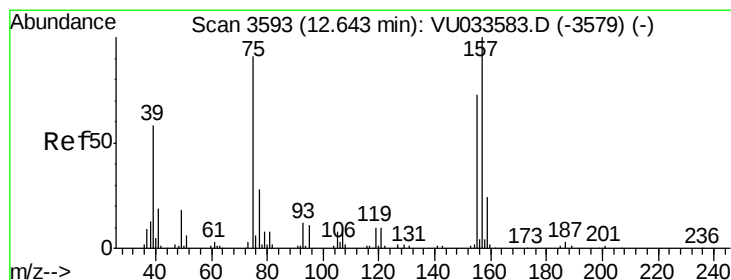
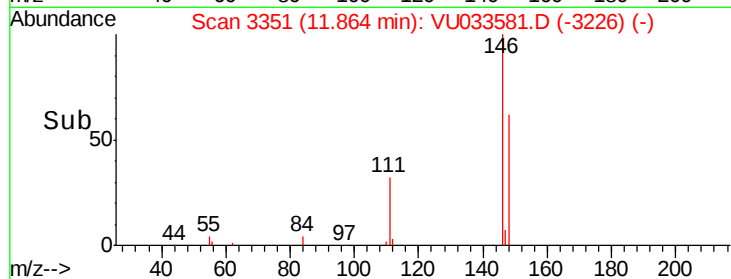
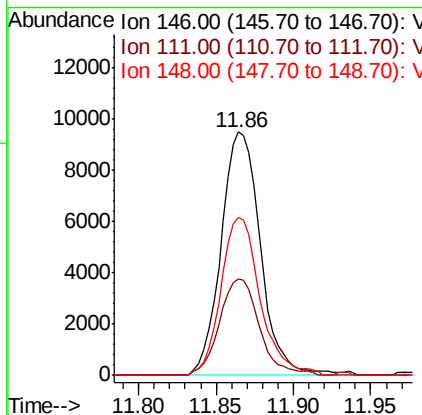
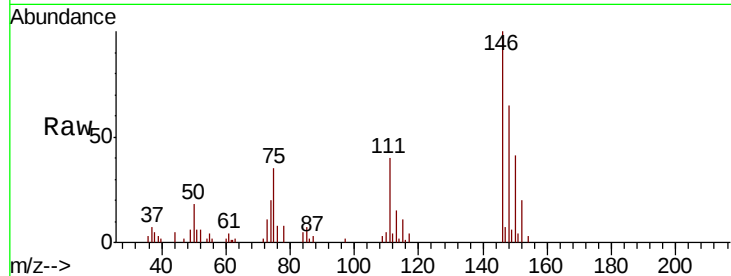




#65
 1,2-Dichlorobenzene
 Concen: 4.142 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

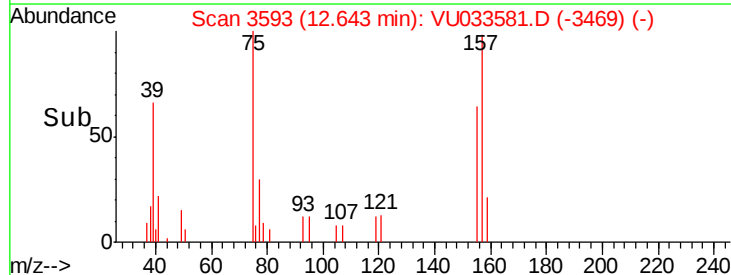
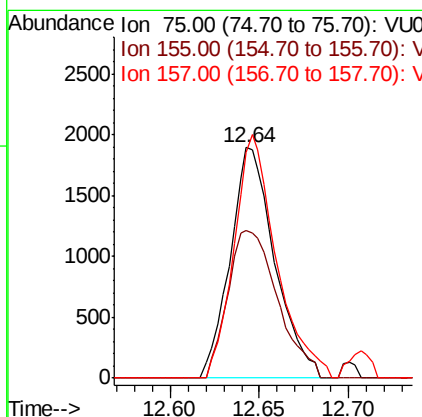
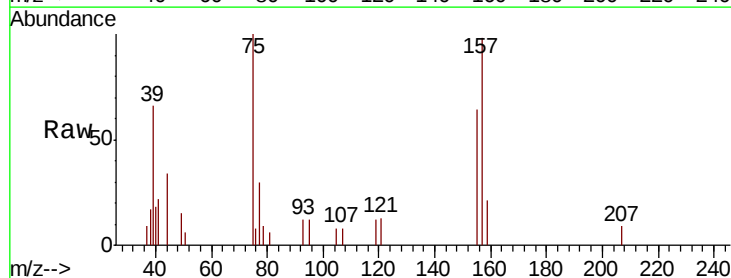
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00535

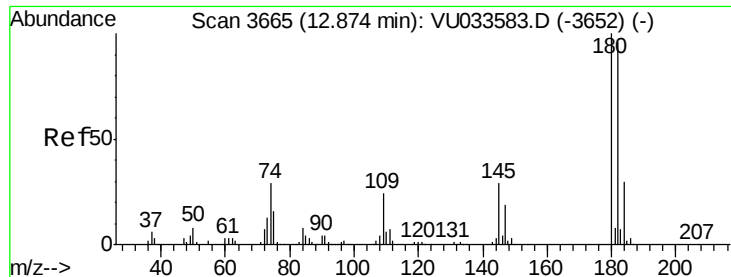
Tgt Ion: 146 Resp: 16712
 Ion Ratio Lower Upper
 146 100
 111 39.8 33.1 49.7
 148 65.0 52.1 78.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.356 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. -0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Tgt Ion: 75 Resp: 3296
 Ion Ratio Lower Upper
 75 100
 155 63.9 64.3 96.5#
 157 98.0 88.0 132.0

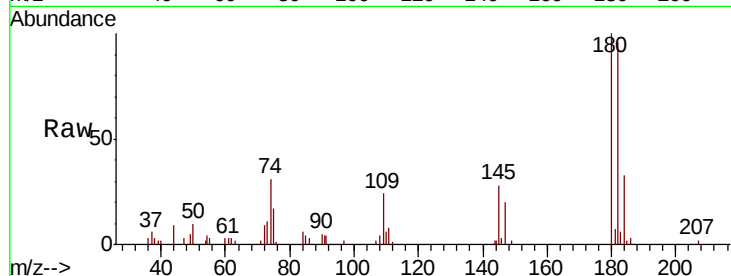




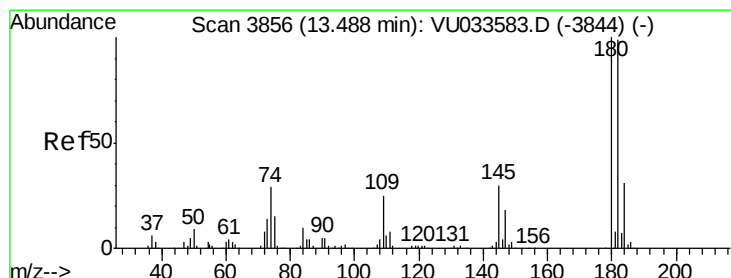
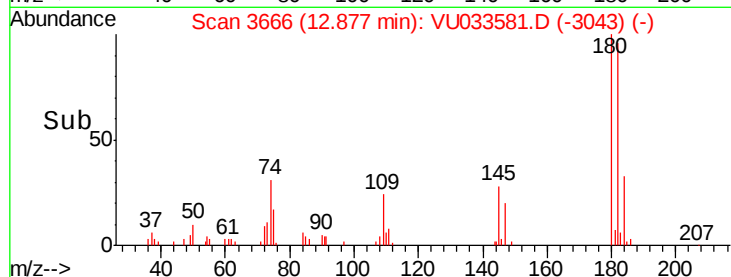
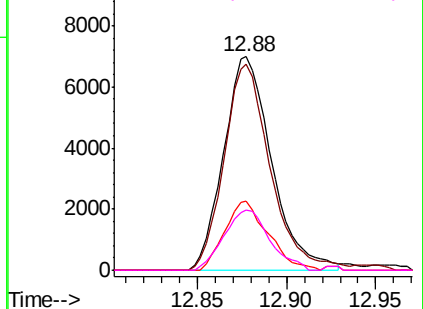
#67
 1,3,5-Trichlorobenzene
 Concen: 4.078 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00535

Tgt Ion:	180	Resp:	13065
Ion	Ratio	Lower	Upper
180	100		
182	92.8	76.8	115.2
184	29.2	23.9	35.9
145	26.9	23.3	34.9

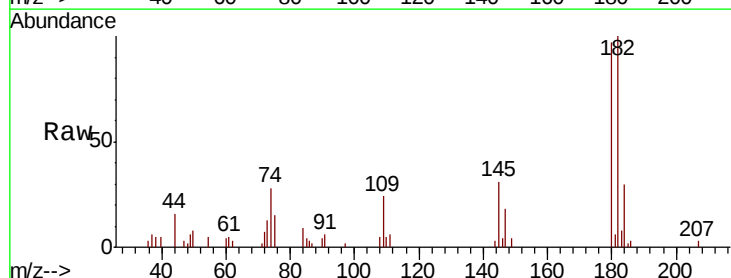


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

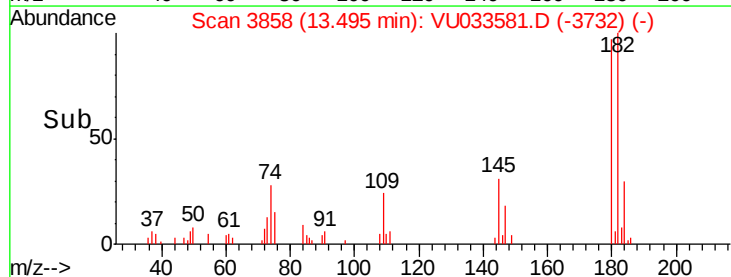
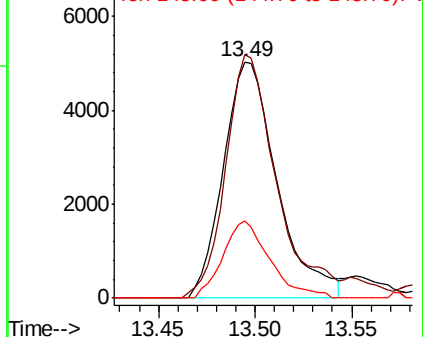


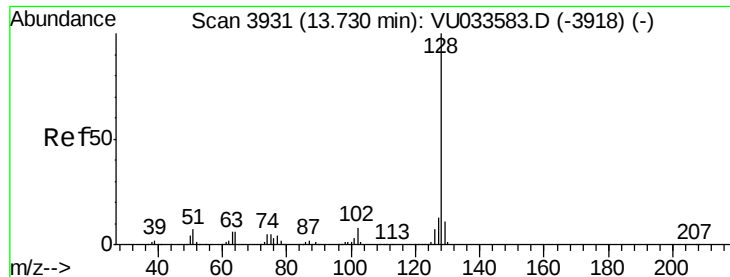
#68
 1,2,4-trichlorobenzene
 Concen: 3.554 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033581.D
 Acq: 03 Aug 2019 10:33

Tgt Ion:	180	Resp:	9709
Ion	Ratio	Lower	Upper
180	100		
182	92.9	77.2	115.8
145	28.6	23.6	35.4



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: 3.395 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.00 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD00535

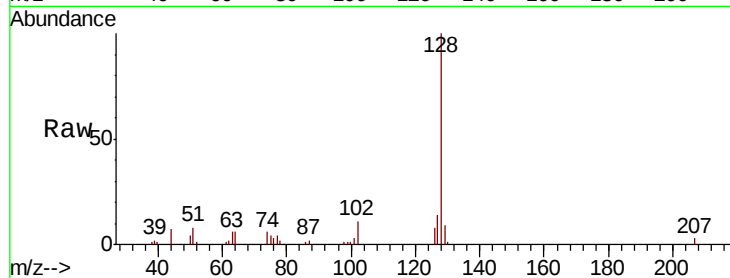
Tgt Ion:128 Resp: 26663

Ion Ratio Lower Upper

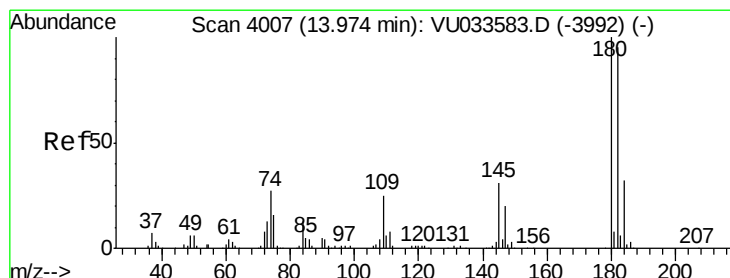
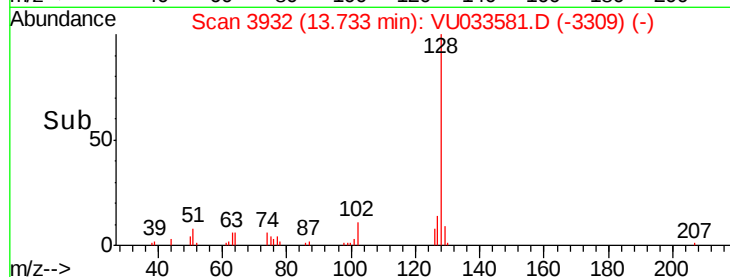
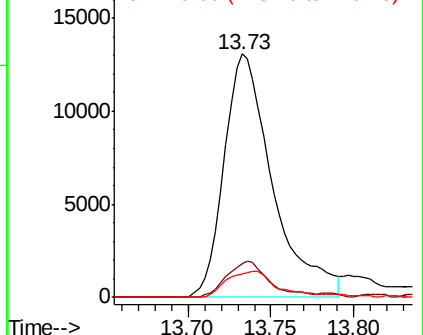
128 100

127 12.9 10.6 16.0

129 10.8 8.9 13.3



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: 3.981 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. 0.01 min

Lab File: VU033581.D

Acq: 03 Aug 2019 10:33

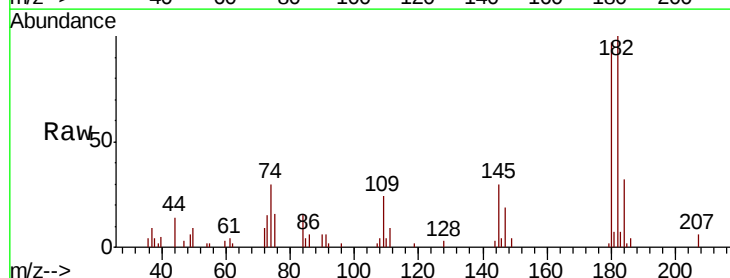
Tgt Ion:180 Resp: 11433

Ion Ratio Lower Upper

180 100

182 88.1 76.5 114.7

145 29.2 24.7 37.1



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

