

Data File : VU033810.D
Acq On : 15 Aug 2019 15:03
Operator : JC/SP
Sample : VSTD01035
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01035

Quant Time: Aug 16 01:47:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	361998	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	364980	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	184883	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	32926	11.86	ug/L	0.00
7) Chloroethane-d5	1.67	69	27536	9.98	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	56295	12.12	ug/L	0.00
21) 2-Butanone-d5	4.16	46	32473	19.54	ug/L	0.00
24) Chloroform-d	4.62	84	52809	12.62	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	33926	12.93	ug/L	0.00
32) Benzene-d6	5.32	84	98617	11.07	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	33342	12.08	ug/L	0.00
41) Toluene-d8	7.55	98	89178	10.64	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	14605	10.67	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	19944	14.89	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	45777	11.34	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	37094	11.60	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	38172	13.527 ug/L	97
3) Chloromethane	1.32	50	39682	13.654 ug/L	99
5) Vinyl chloride	1.39	62	43325	13.371 ug/L	99
6) Bromomethane	1.62	94	27757	10.432 ug/L	100
8) Chloroethane	1.69	64	27197	11.391 ug/L	93
9) Trichlorofluoromethane	1.87	101	57713	13.267 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	28063	12.493 ug/L	99
12) 1,1-Dichloroethene	2.27	96	26903	12.185 ug/L	96
13) Acetone	2.31	43	37992	22.675 ug/L	100
14) Carbon disulfide	2.46	76	85205	13.436 ug/L	100
15) Methyl Acetate	2.60	43	30131	10.831 ug/L	95
16) Methylene chloride	2.68	84	31472	12.382 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	27231	11.619 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	75821	10.067 ug/L	99
19) 1,1-Dichloroethane	3.42	63	54657	12.295 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	28334	10.656 ug/L	94
22) 2-Butanone	4.25	43	38522	18.721 ug/L	95
23) Bromochloromethane	4.53	128	16269	11.819 ug/L	97
25) Chloroform	4.65	83	57074	12.321 ug/L	100
27) 1,2-Dichloroethane	5.38	62	42162	11.930 ug/L	99
29) Cyclohexane	4.97	56	36877	9.451 ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	46933	11.611 ug/L	99
31) Carbon tetrachloride	5.11	117	41988	11.518 ug/L	100
33) Benzene	5.37	78	114939	11.047 ug/L	100
34) Trichloroethene	6.17	95	30723	11.208 ug/L	98
35) Methylcyclohexane	6.40	83	39890	9.620 ug/L	96
37) 1,2-Dichloropropane	6.41	63	32330	11.645 ug/L	# 96
38) Bromodichloromethane	6.74	83	41404	11.624 ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	42641	9.759 ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	67032	16.881 ug/L	98

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	115851	10.331	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	38352	9.873	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	30112	11.201	ug/L	96
46) Tetrachloroethene	8.21	164	24135	10.786	ug/L	97
48) 2-Hexanone	8.35	43	50556	16.112	ug/L	100
49) Dibromochloromethane	8.46	129	32713	10.818	ug/L	98
50) 1,2-Dibromoethane	8.57	107	30580	10.335	ug/L	94
51) Chlorobenzene	9.10	112	79964	10.903	ug/L	99
52) Ethylbenzene	9.23	91	117816	9.665	ug/L	98
53) m,p-Xylene	9.36	106	43802	9.424	ug/L	97
54) o-xylene	9.76	106	40427	8.811	ug/L	96
55) Styrene	9.77	104	69295	8.958	ug/L	94
56) Isopropylbenzene	10.15	105	109410	9.118	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	47273	10.136	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	38104	10.294	ug/L	98
61) Bromoform	9.94	173	24000	10.708	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	60566	10.658	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	62649	10.875	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	60116	10.699	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	9941	9.630	ug/L	95
67) 1,3,5-Trichlorobenzene	12.87	180	44622	9.965	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	31216	7.841	ug/L	99
69) Naphthalene	13.73	128	75946	6.428	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	34663	8.306	ug/L	100

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

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VSTD01035

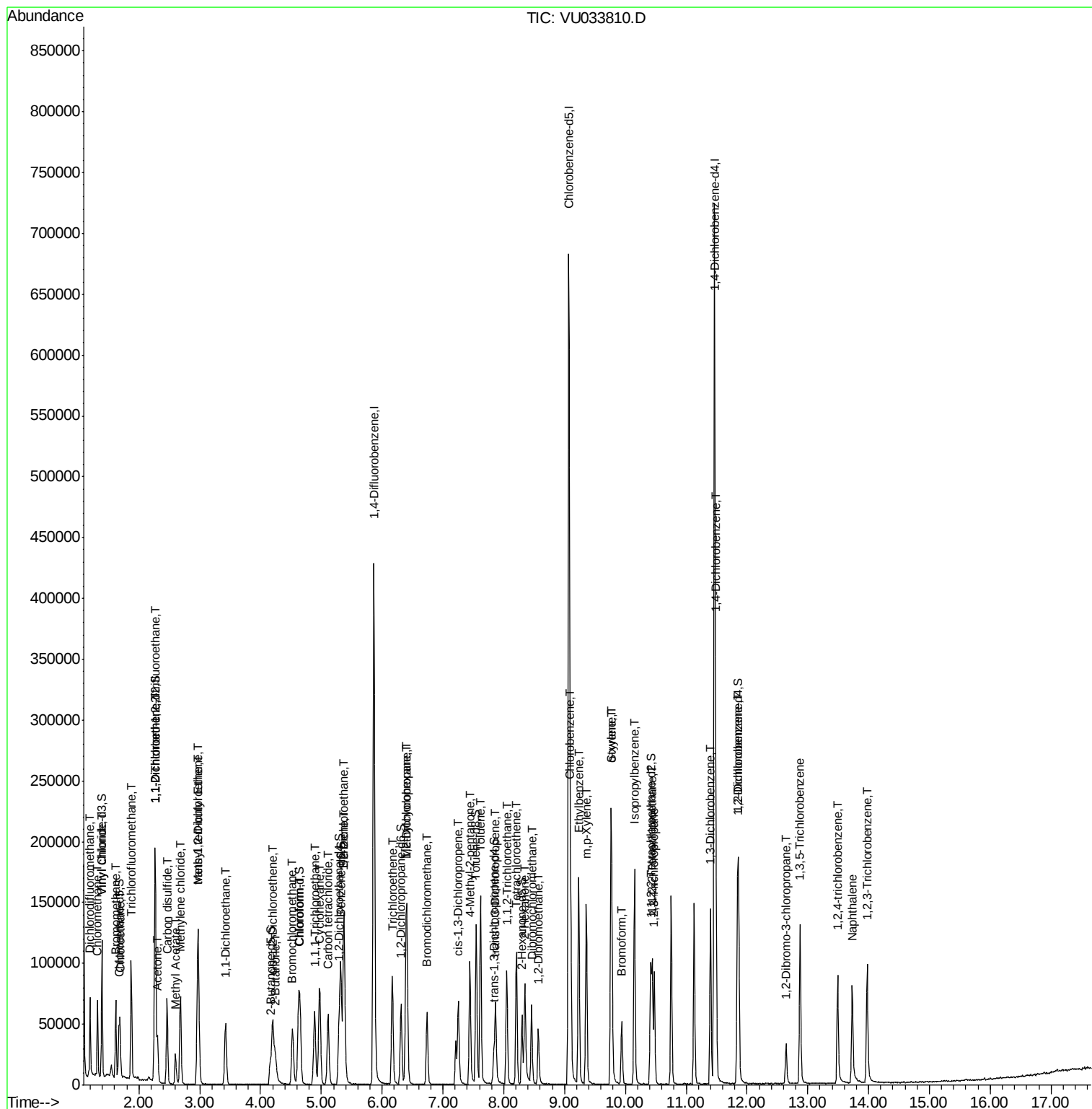
Quant Time: Aug 16 01:47:53 2019

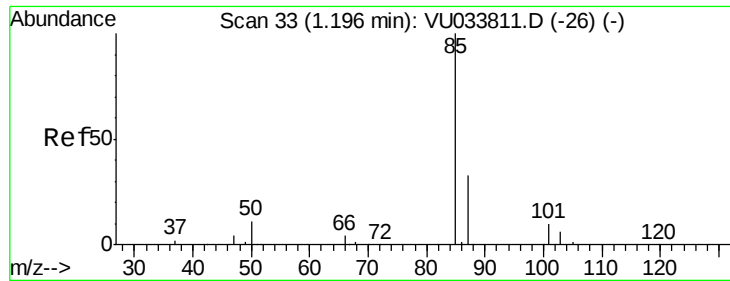
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMULM081619WMA.M

Quant Title : VOC Analysis

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#2

Dichlorodifluoromethane

Concen: 13.527 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

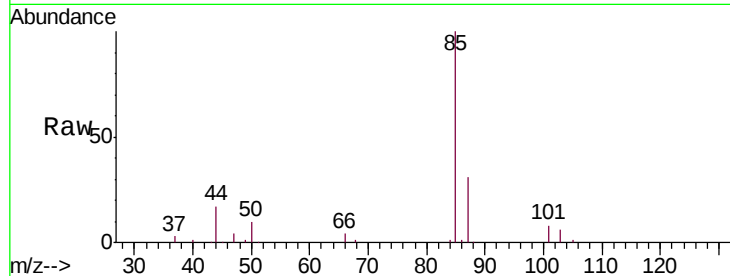
VSTD01035

Tgt Ion: 85 Resp: 38172

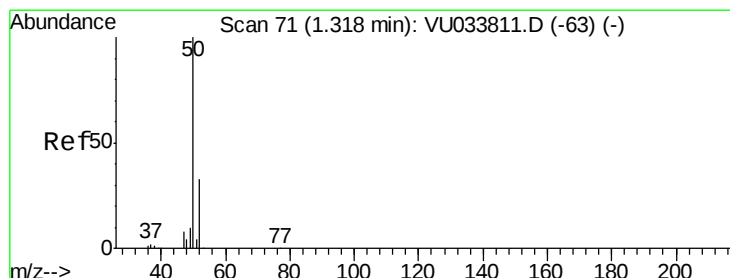
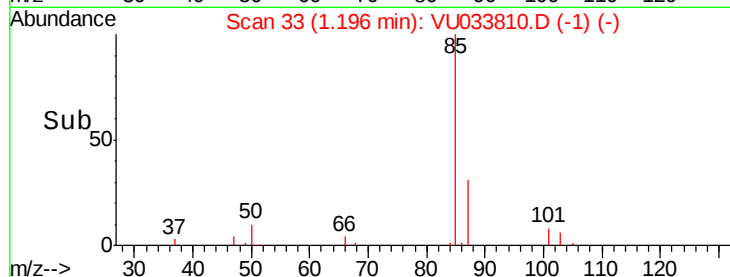
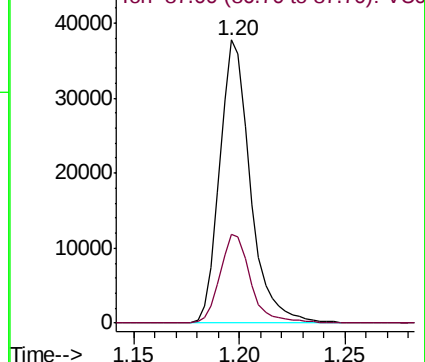
Ion Ratio Lower Upper

85 100

87 31.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU033810.D (-1) (-)



#3

Chloromethane

Concen: 13.654 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033810.D

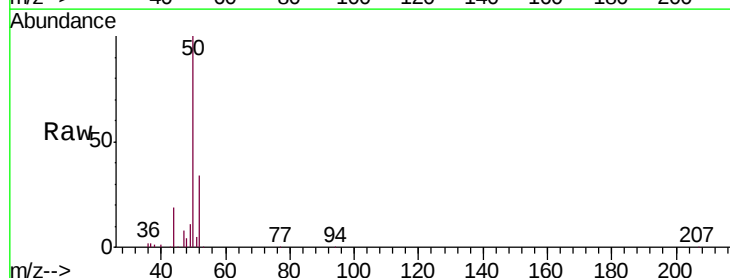
Acq: 15 Aug 2019 15:03

Tgt Ion: 50 Resp: 39682

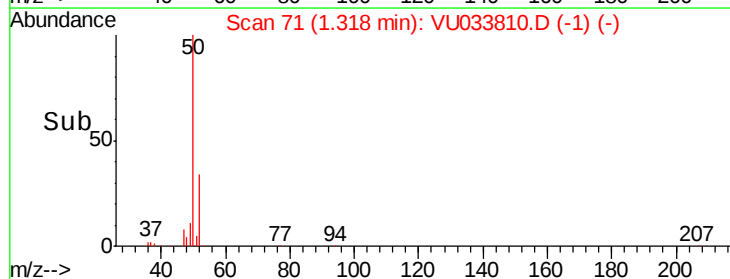
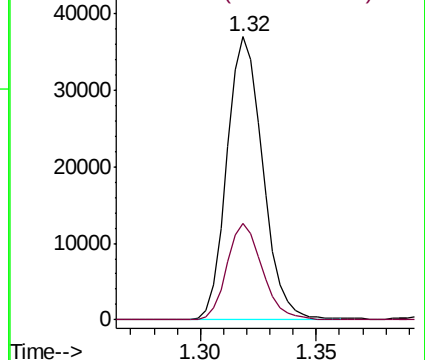
Ion Ratio Lower Upper

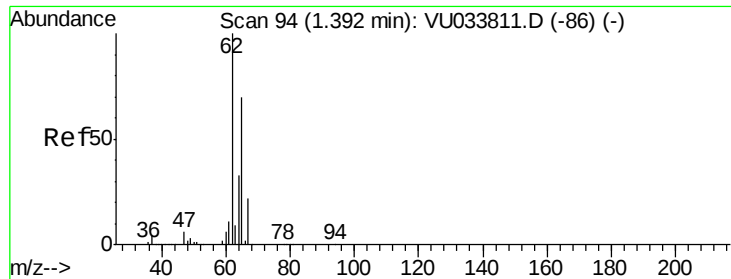
50 100

52 33.9 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033810.D (-1) (-)





#5

Vinyl chloride

Concen: 13.371 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

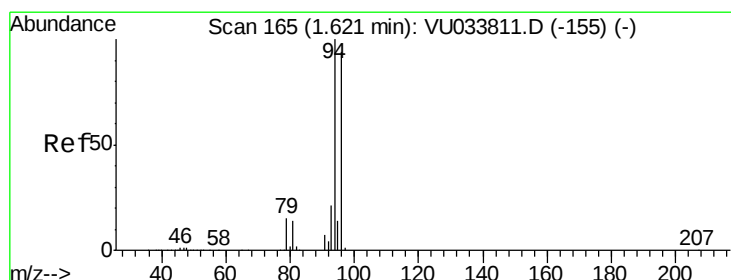
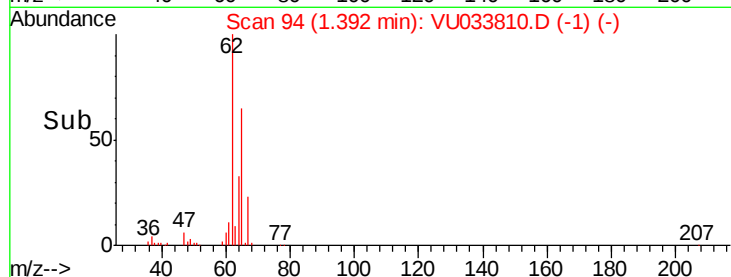
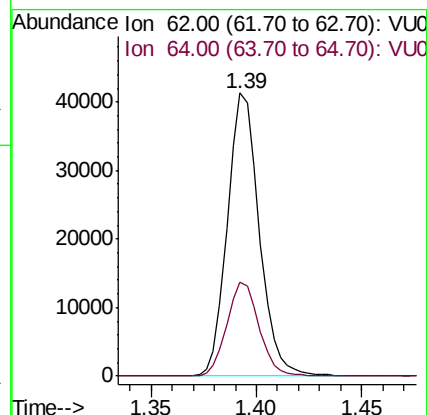
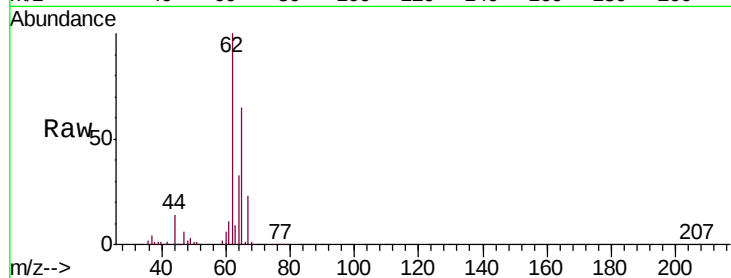
VSTD01035

Tgt Ion: 62 Resp: 43325

Ion Ratio Lower Upper

62 100

64 33.0 23.3 43.3



#6

Bromomethane

Concen: 10.432 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033810.D

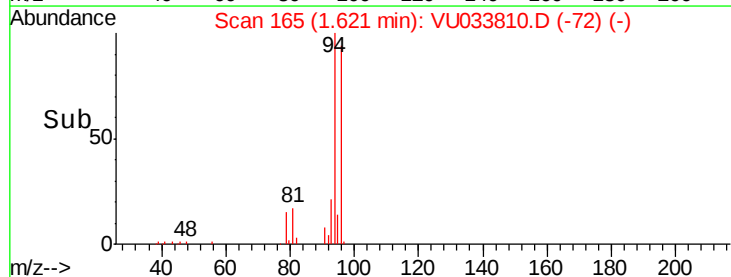
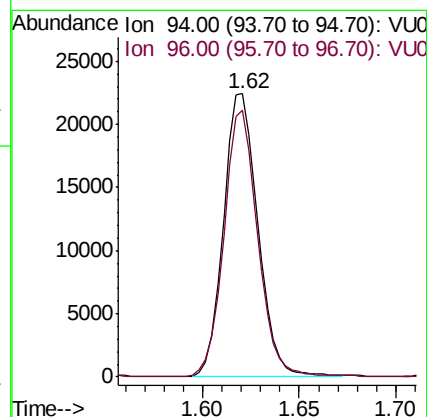
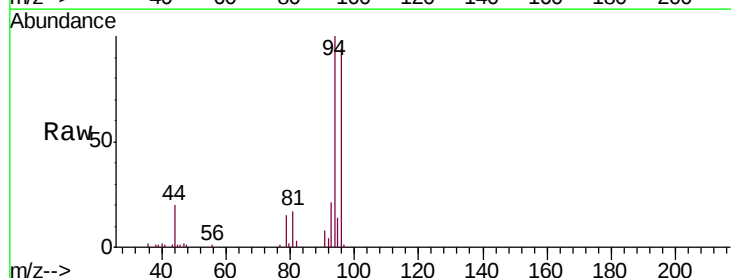
Acq: 15 Aug 2019 15:03

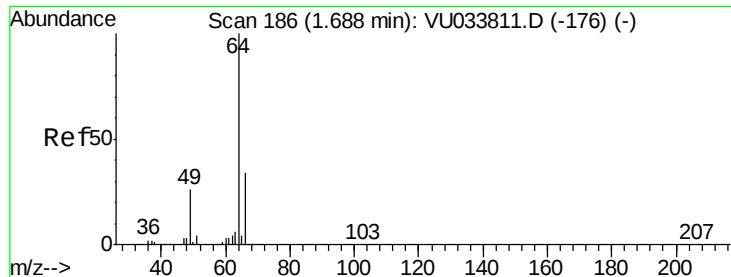
Tgt Ion: 94 Resp: 27757

Ion Ratio Lower Upper

94 100

96 94.0 65.9 122.3





#8

Chloroethane

Concen: 11.391 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

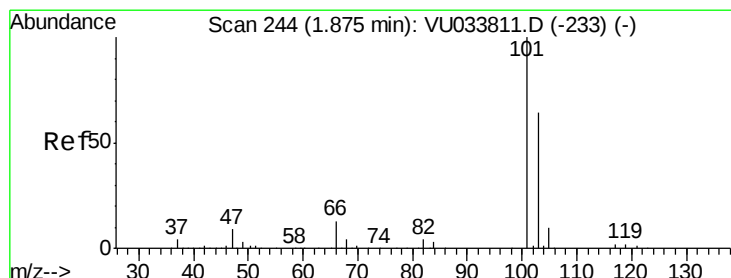
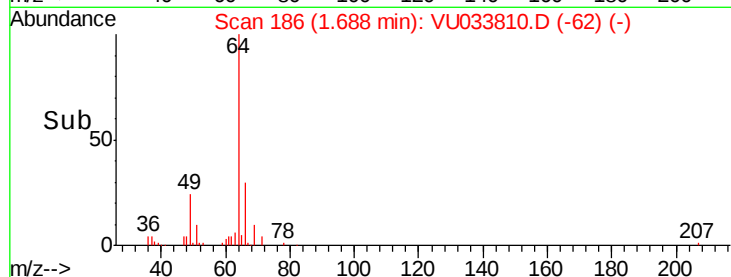
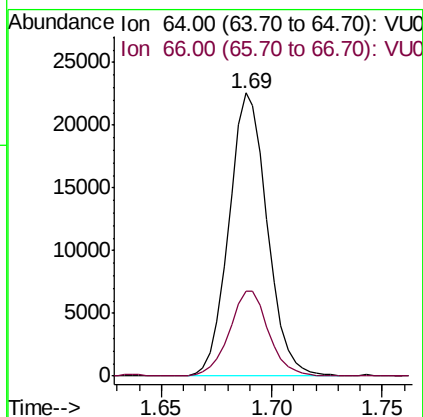
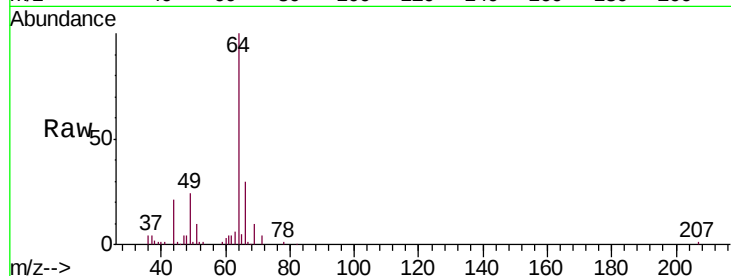
VSTD01035

Tgt Ion: 64 Resp: 27197

Ion Ratio Lower Upper

64 100

66 30.0 23.9 44.3



#9

Trichlorofluoromethane

Concen: 13.267 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033810.D

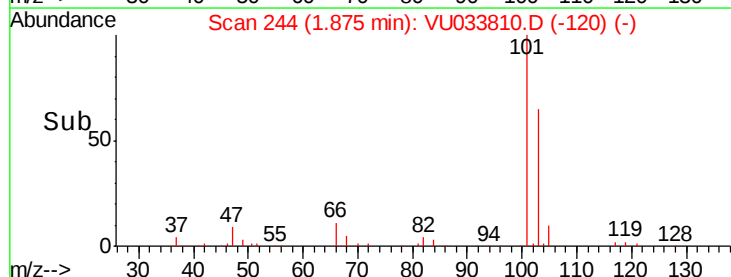
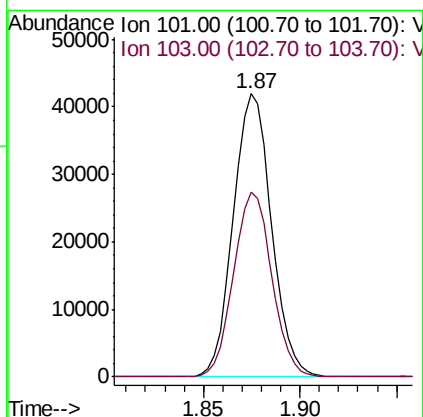
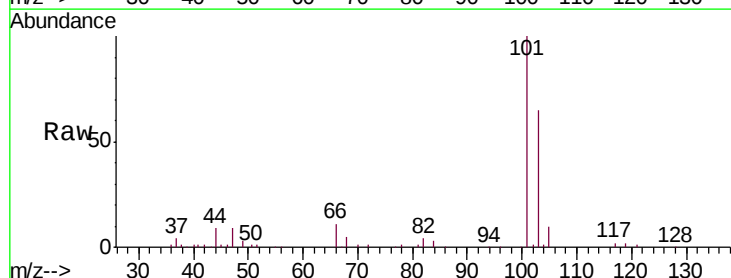
Acq: 15 Aug 2019 15:03

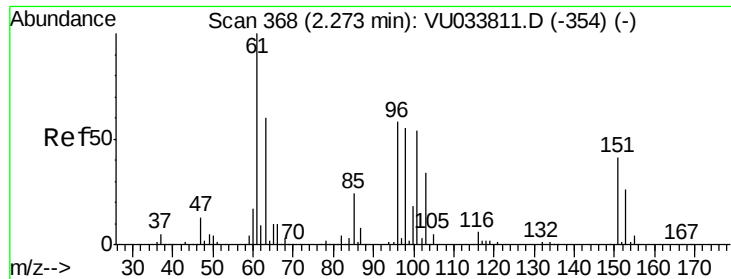
Tgt Ion: 101 Resp: 57713

Ion Ratio Lower Upper

101 100

103 65.2 51.9 77.9





#10

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

Concen: 12.493 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD01035

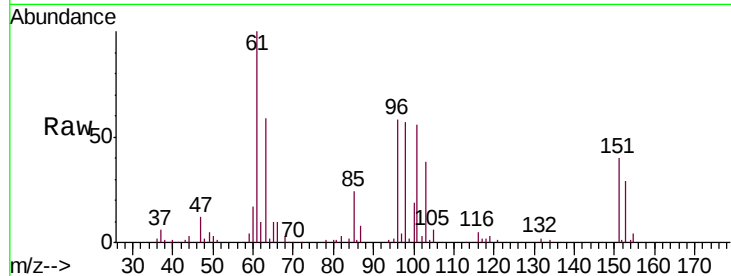
Tgt Ion:101 Resp: 28063

Ion Ratio Lower Upper

101 100

85 43.9 35.2 52.8

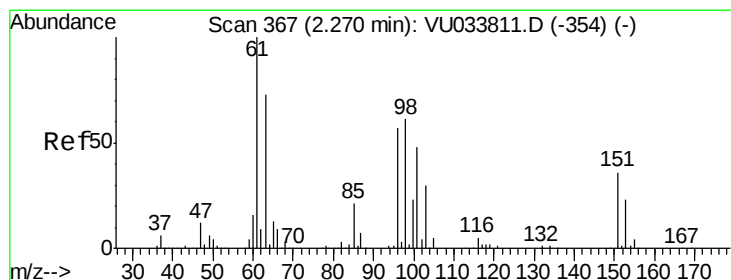
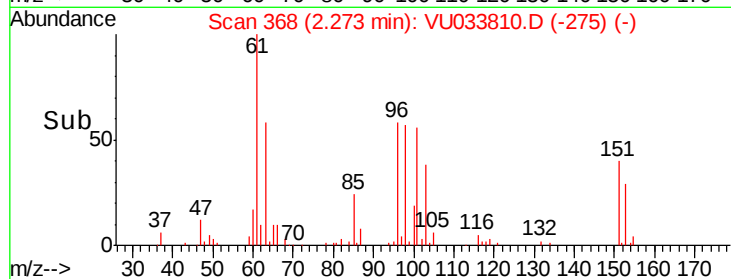
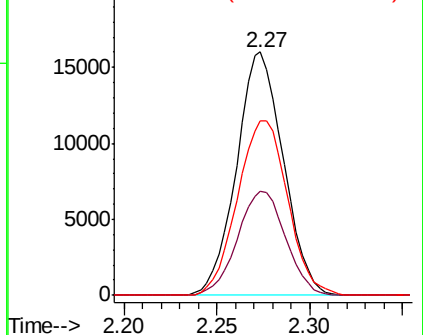
151 76.9 60.4 90.6



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: 12.185 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

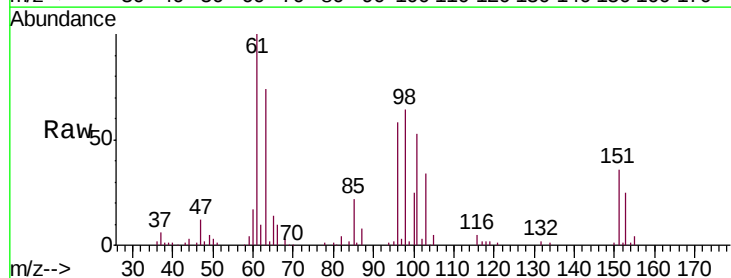
Tgt Ion: 96 Resp: 26903

Ion Ratio Lower Upper

96 100

61 171.5 123.7 229.7

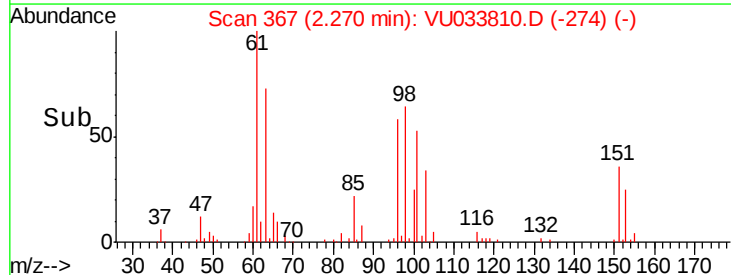
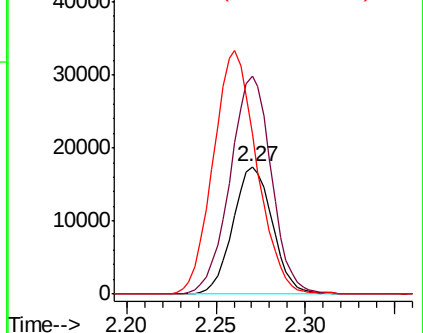
63 126.3 91.2 169.4

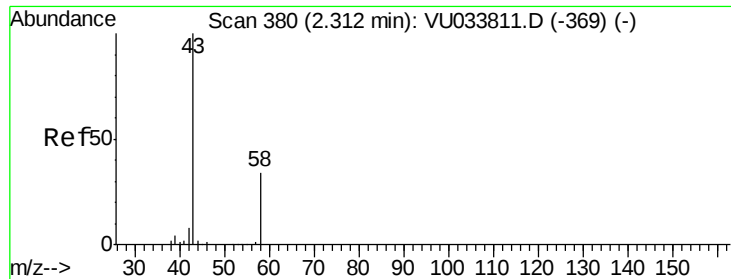


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 22.675 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

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ClientSampleId :

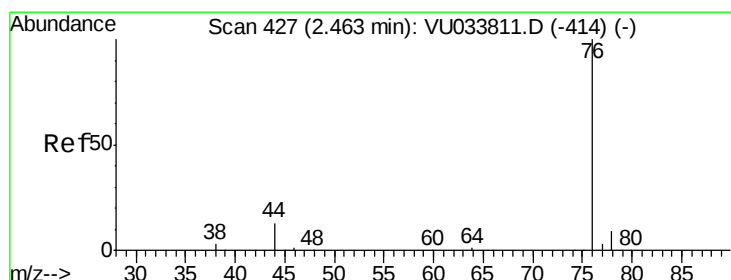
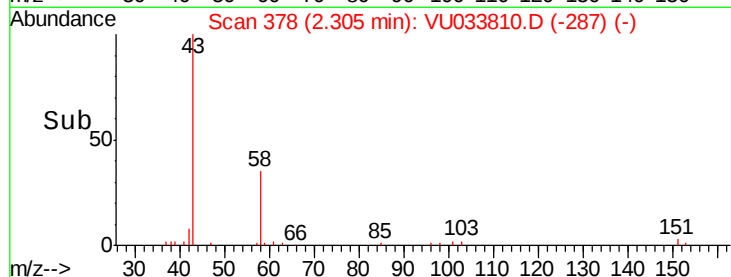
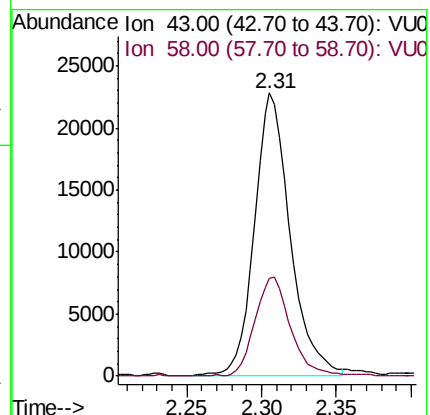
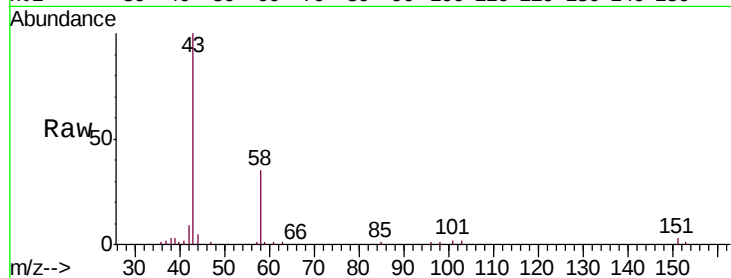
VSTD01035

Tgt Ion: 43 Resp: 37992

Ion Ratio Lower Upper

43 100

58 34.7 0.0 69.0



#14

Carbon disulfide

Concen: 13.436 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033810.D

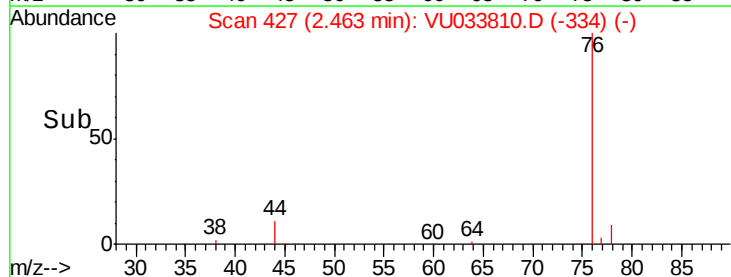
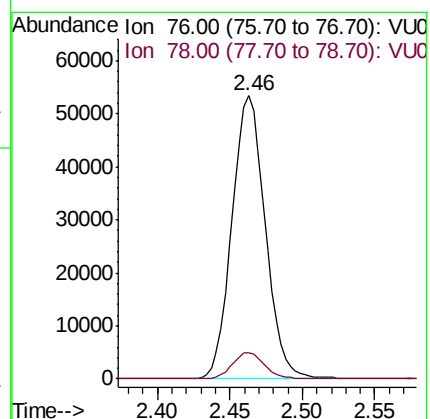
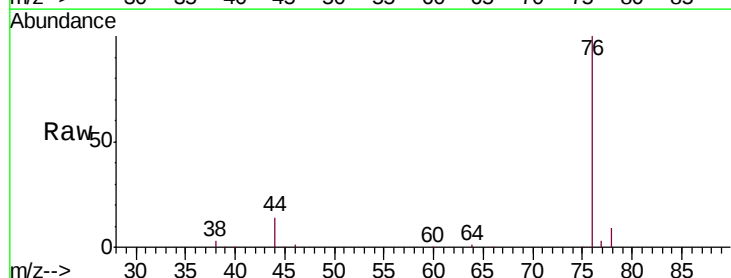
Acq: 15 Aug 2019 15:03

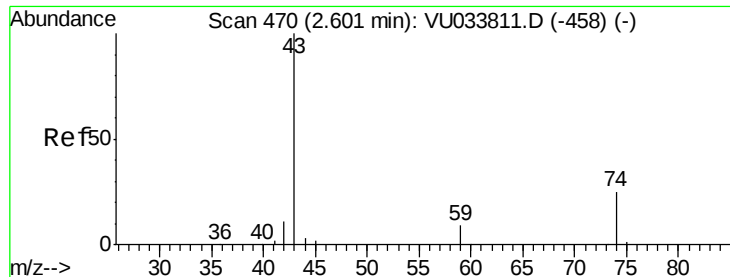
Tgt Ion: 76 Resp: 85205

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2





#15

Methyl Acetate

Concen: 10.831 ug/L

RT: 2.60 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

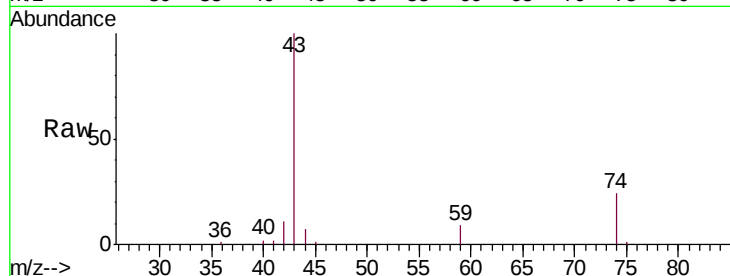
VSTD01035

Tgt Ion: 43 Resp: 30131

Ion Ratio Lower Upper

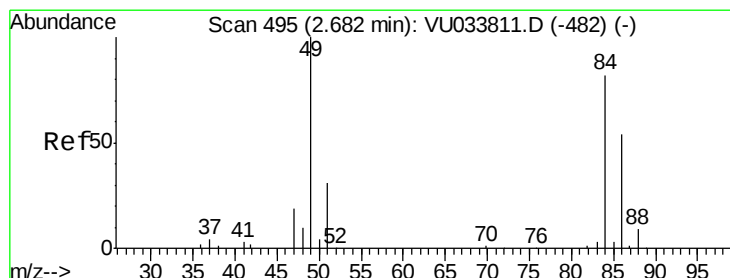
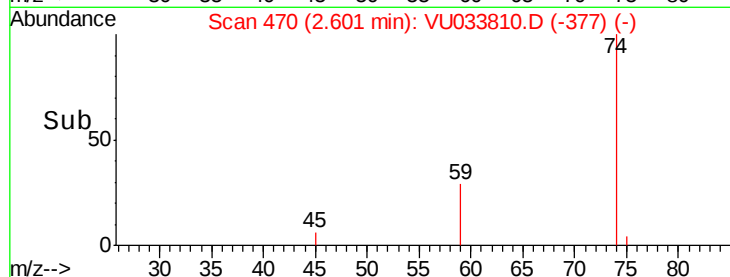
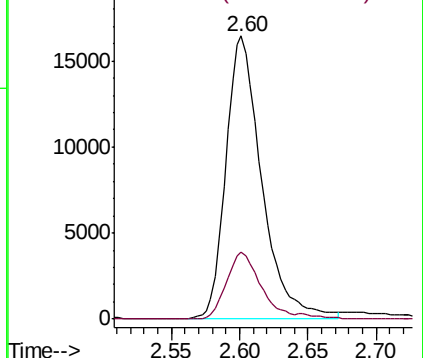
43 100

74 22.3 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VU033810.D

Ion 74.00 (73.70 to 74.70): VU033810.D



#16

Methylene chloride

Concen: 12.382 ug/L

RT: 2.68 min Scan# 495

Delta R.T. 0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

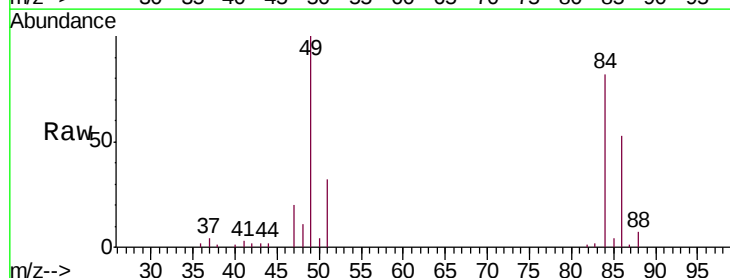
Tgt Ion: 84 Resp: 31472

Ion Ratio Lower Upper

84 100

86 64.7 46.1 85.5

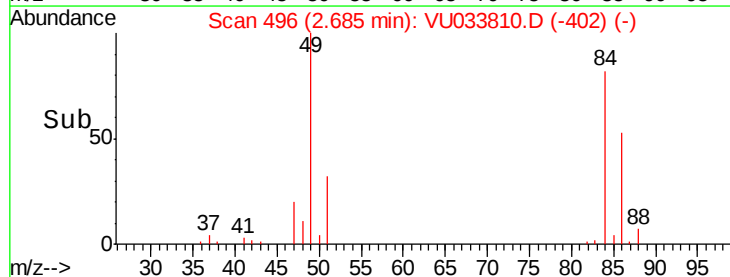
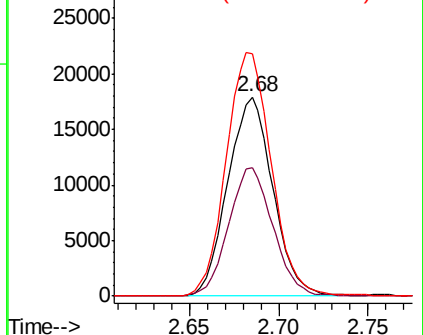
49 121.8 85.6 159.0

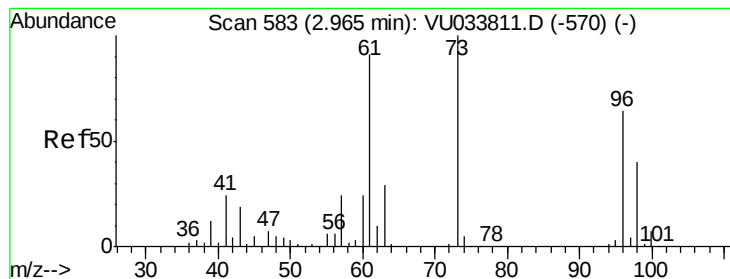


Abundance Ion 84.00 (83.70 to 84.70): VU033810.D

Ion 86.00 (85.70 to 86.70): VU033810.D

Ion 49.00 (48.70 to 49.70): VU033810.D





#17

trans-1,2-Dichloroethene

Concen: 11.619 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD01035

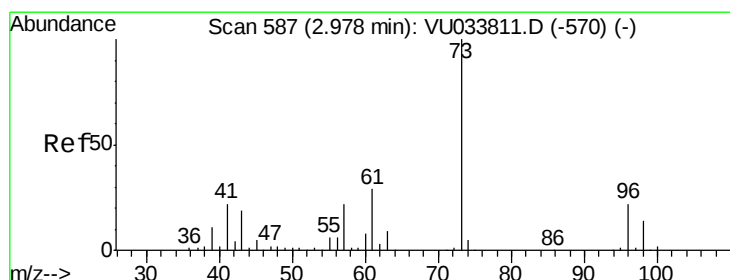
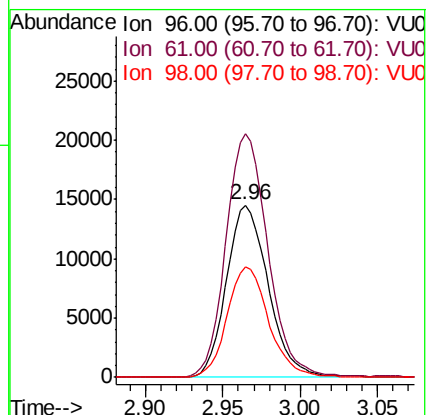
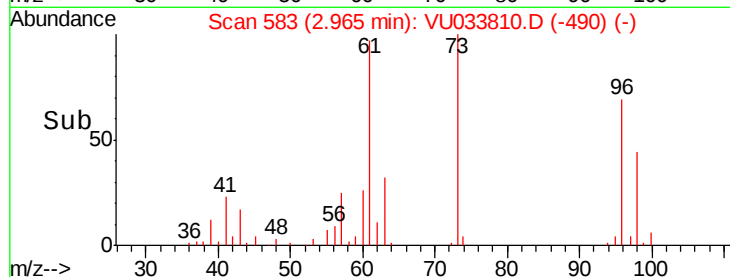
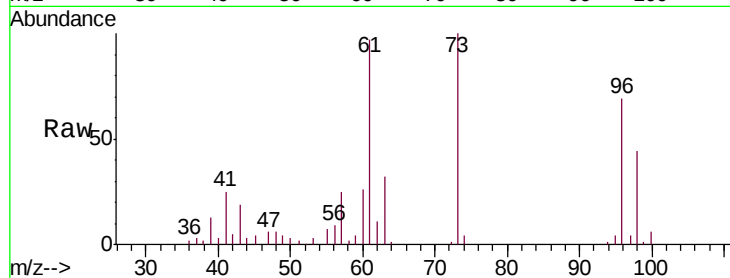
Tgt Ion: 96 Resp: 27231

Ion Ratio Lower Upper

96 100

61 141.4 98.6 183.2

98 64.0 43.8 81.3



#18

Methyl tert-butyl Ether

Concen: 10.067 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

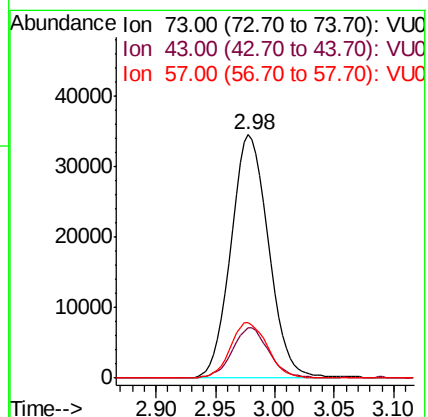
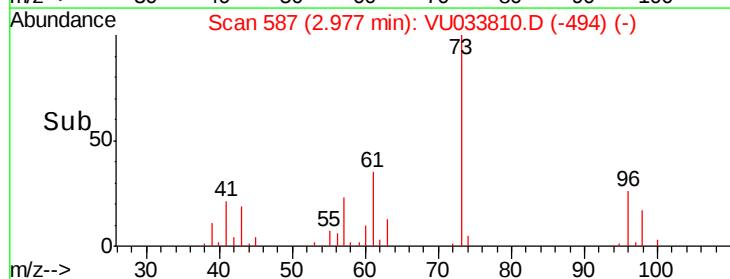
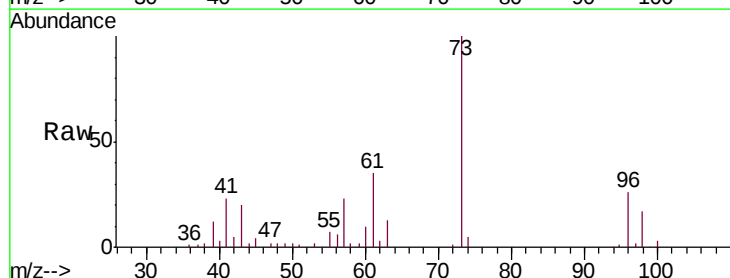
Tgt Ion: 73 Resp: 75821

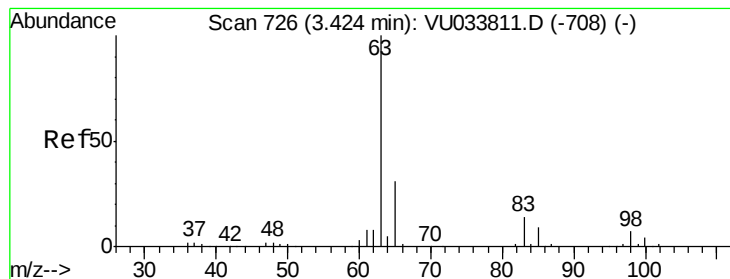
Ion Ratio Lower Upper

73 100

43 20.2 15.2 22.8

57 22.4 17.8 26.8





#19

1,1-Dichloroethane

Concen: 12.295 ug/L

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD01035

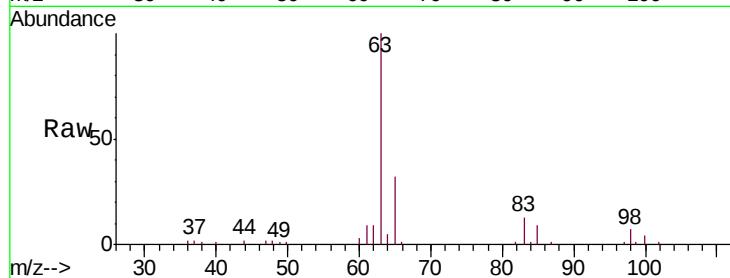
Tgt Ion: 63 Resp: 54657

Ion Ratio Lower Upper

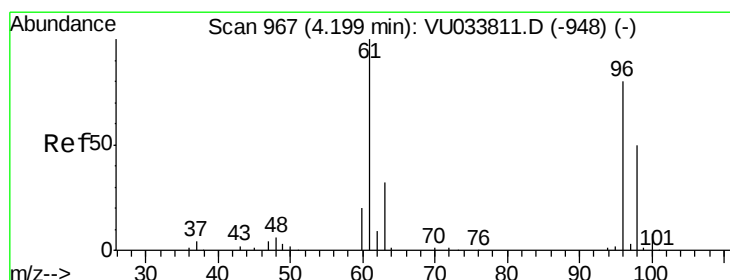
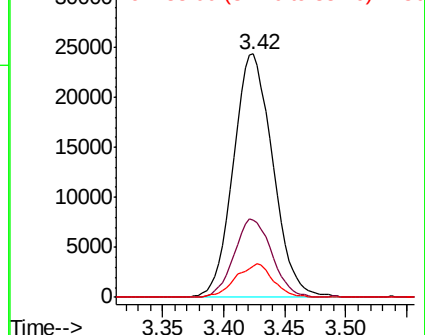
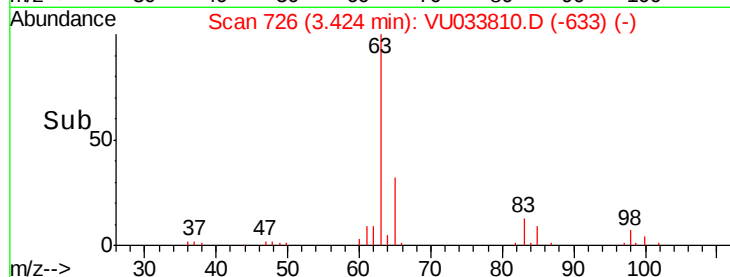
63 100

65 31.8 21.8 40.6

83 13.0 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VU033810.D (-633) (-)



#20

cis-1,2-Dichloroethene

Concen: 10.656 ug/L

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

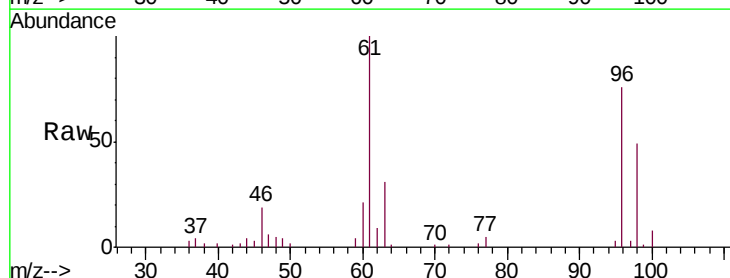
Tgt Ion: 96 Resp: 28334

Ion Ratio Lower Upper

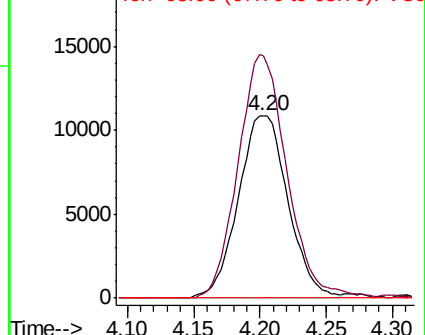
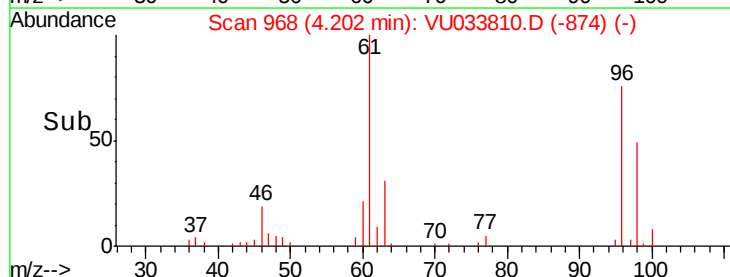
96 100

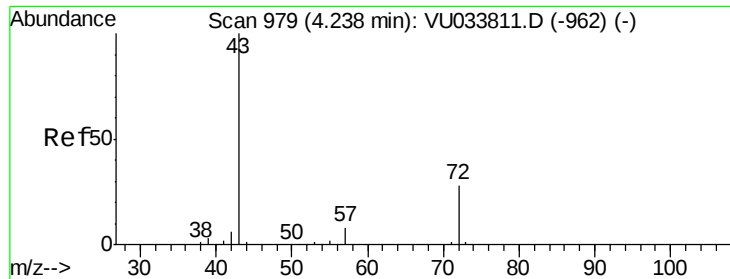
61 132.3 88.2 163.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033810.D (-874) (-)





#22

2-Butanone

Concen: 18.721 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.01 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

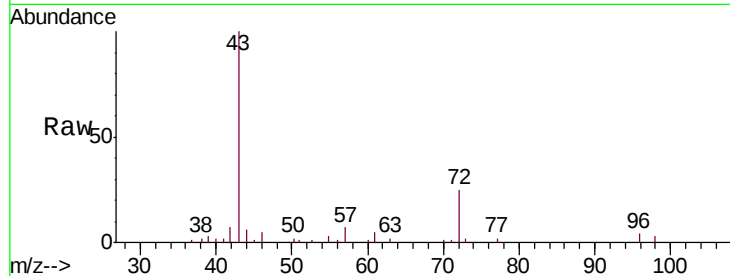
VSTD01035

Tgt Ion: 43 Resp: 38522

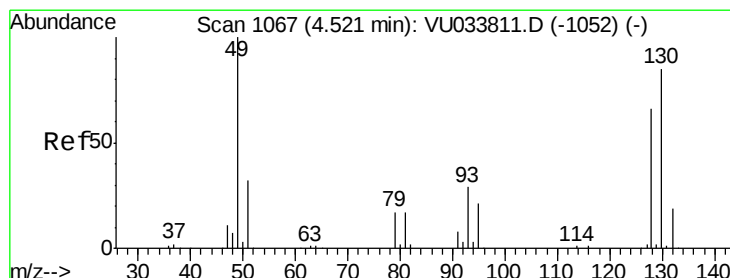
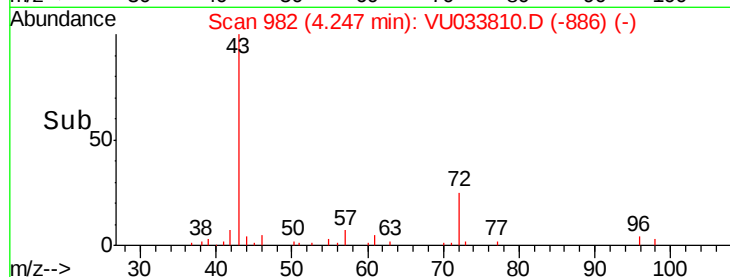
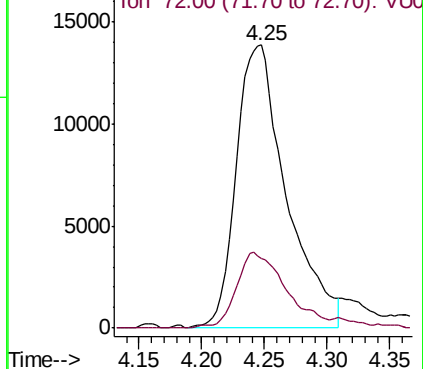
Ion Ratio Lower Upper

43 100

72 26.3 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033811.D (-962) (-)



#23

Bromochloromethane

Concen: 11.819 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.01 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Tgt Ion: 128 Resp: 16269

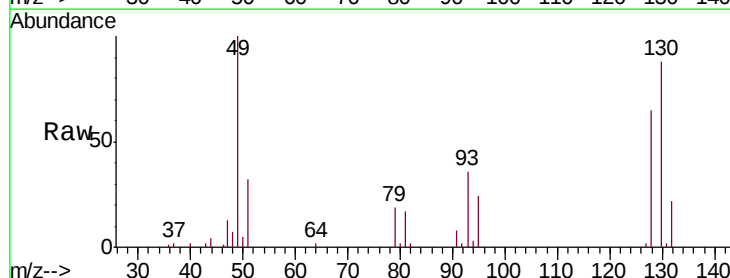
Ion Ratio Lower Upper

128 100

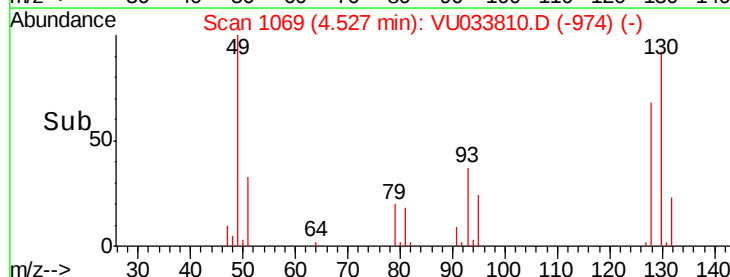
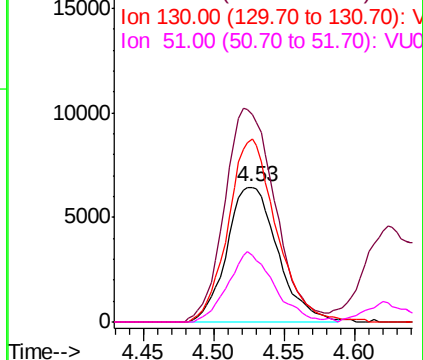
49 153.3 106.7 198.3

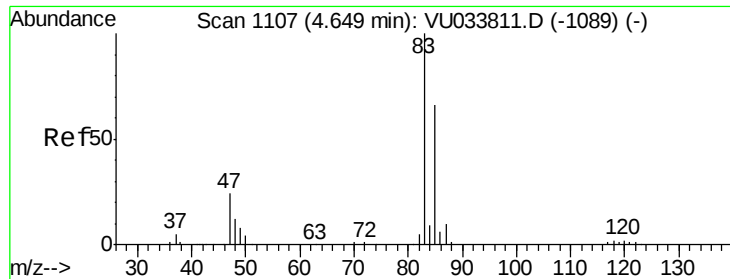
130 135.3 90.4 168.0

51 48.9 38.4 57.6



Abundance Ion 128.00 (127.70 to 128.70): VU033811.D (-1052) (-)

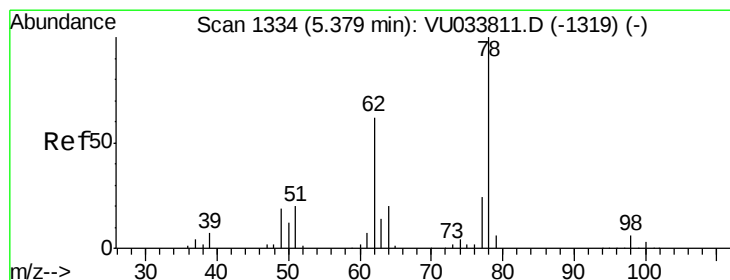
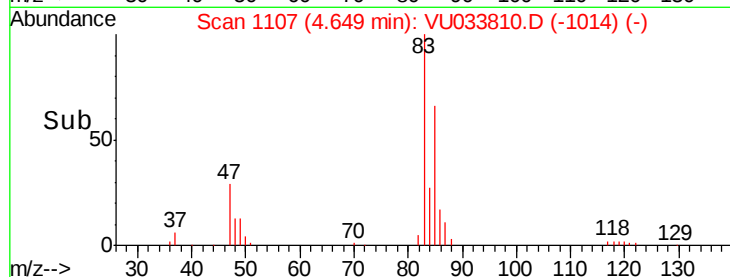
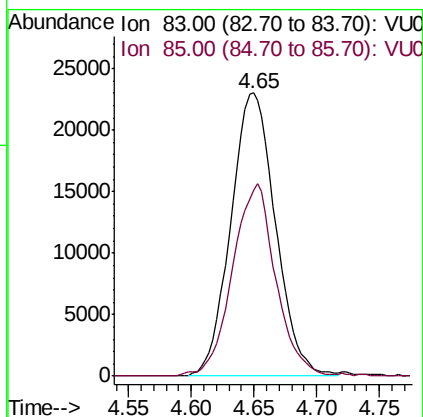
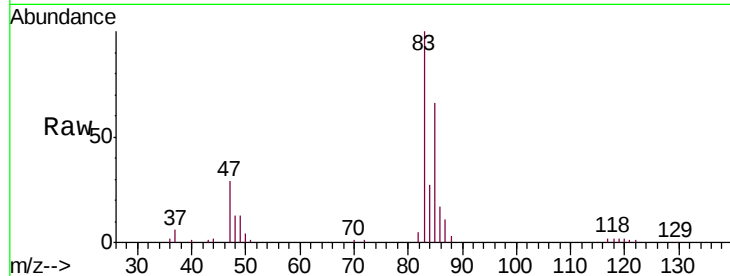




#25
Chloroform
Concen: 12.321 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU033810.D
Acq: 15 Aug 2019 15:03

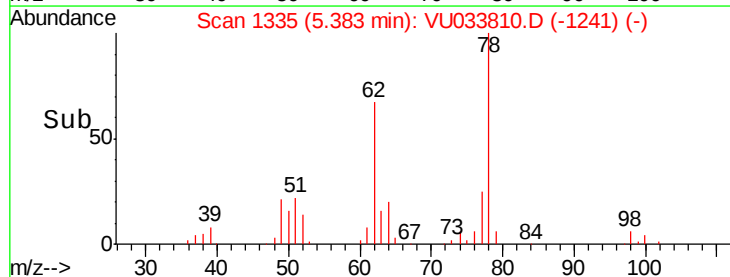
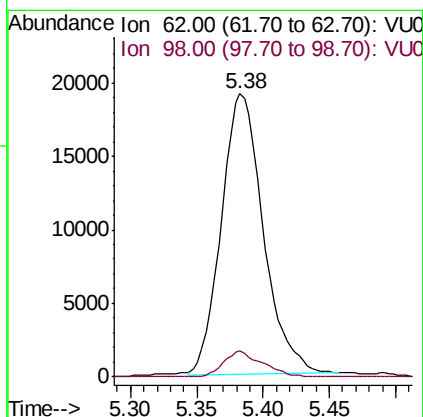
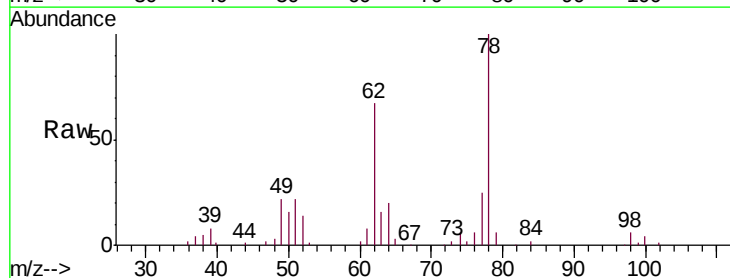
Instrument :
MSVOA_U
ClientSampleId :
VSTD01035

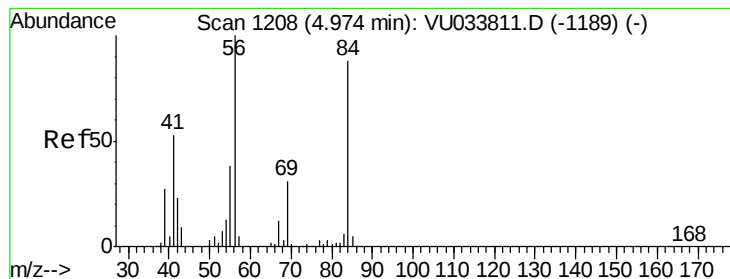
Tgt Ion: 83 Resp: 57074
Ion Ratio Lower Upper
83 100
85 65.8 46.3 86.1



#27
1,2-Dichloroethane
Concen: 11.930 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033810.D
Acq: 15 Aug 2019 15:03

Tgt Ion: 62 Resp: 42162
Ion Ratio Lower Upper
62 100
98 9.2 7.0 10.6





#29

Cyclohexane

Concen: 9.451 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD01035

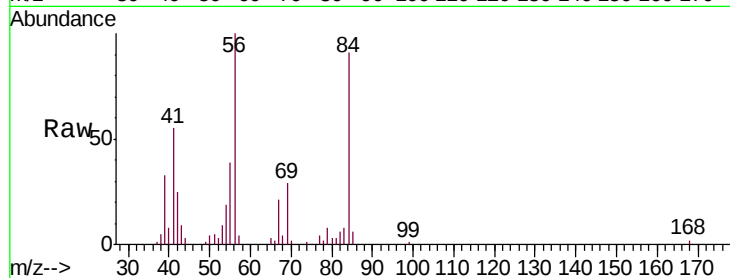
Tgt Ion: 56 Resp: 36877

Ion Ratio Lower Upper

56 100

69 30.1 24.4 36.6

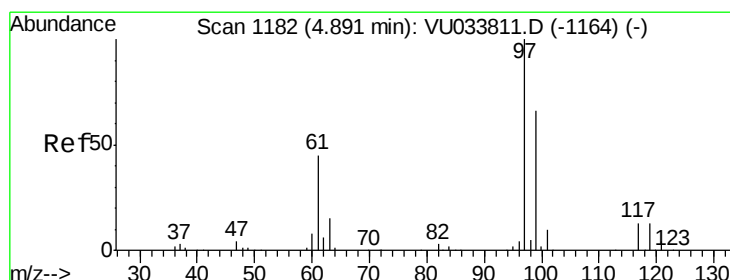
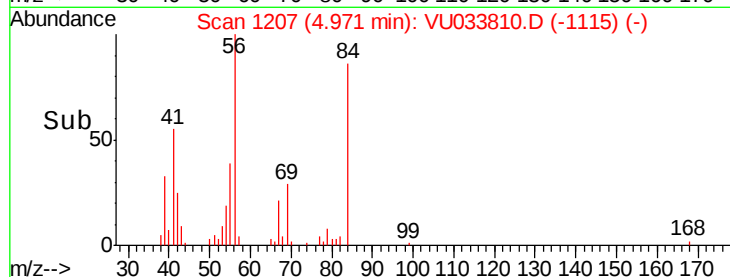
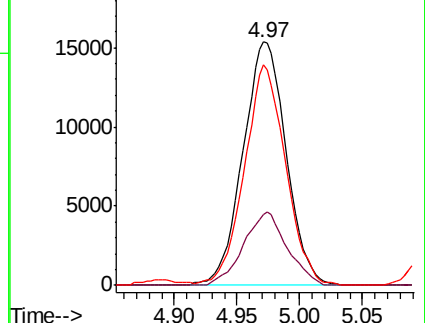
84 86.4 69.0 103.4



Abundance Ion 56.00 (55.70 to 56.70): VU033810.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU033810.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU033810.D (-1189) (-)



#30

1,1,1-Trichloroethane

Concen: 11.611 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

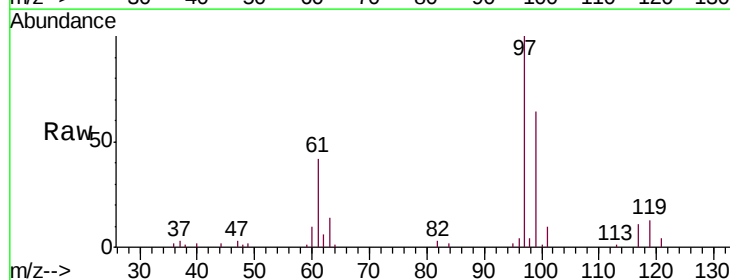
Tgt Ion: 97 Resp: 46933

Ion Ratio Lower Upper

97 100

99 64.8 51.8 77.8

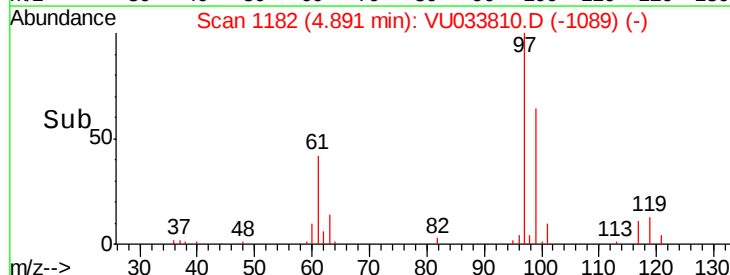
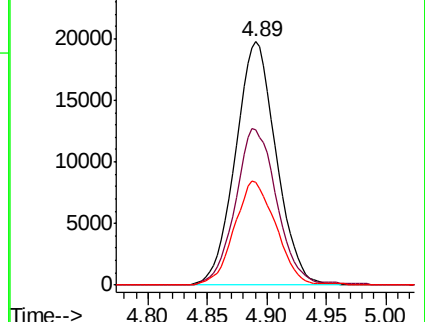
61 43.6 35.8 53.6

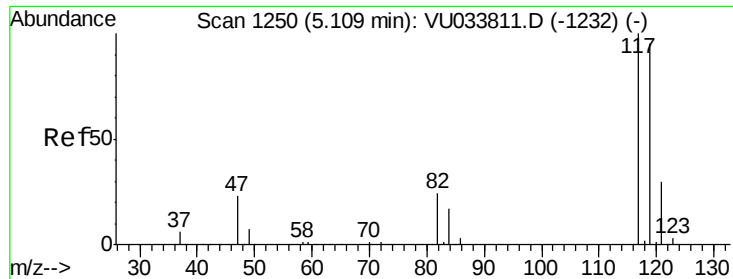


Abundance Ion 97.00 (96.70 to 97.70): VU033810.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033810.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033810.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 11.518 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

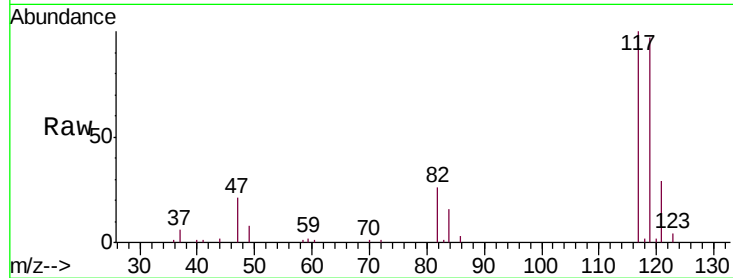
VSTD01035

Tgt Ion:117 Resp: 41988

Ion Ratio Lower Upper

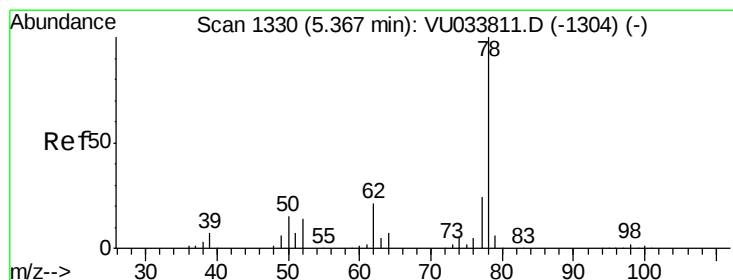
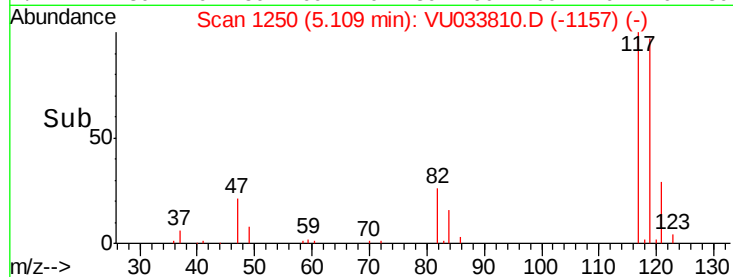
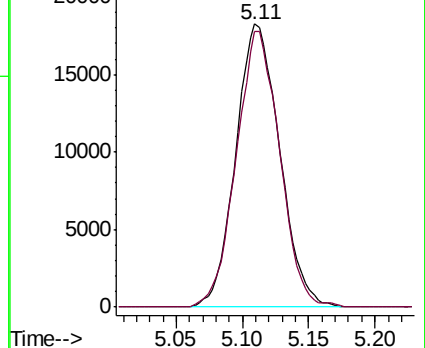
117 100

119 96.0 77.0 115.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 11.047 ug/L

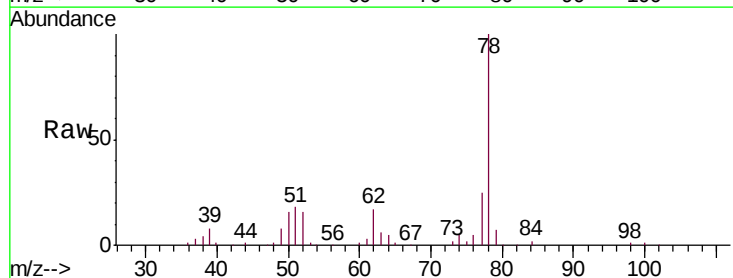
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU033810.D

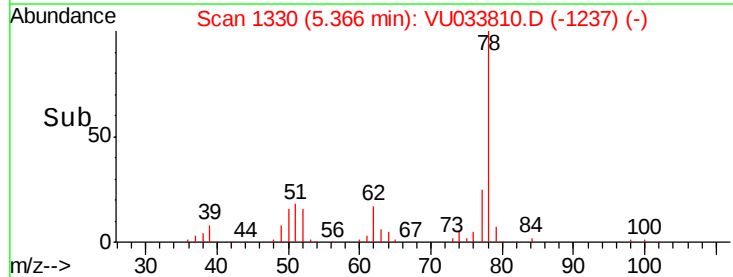
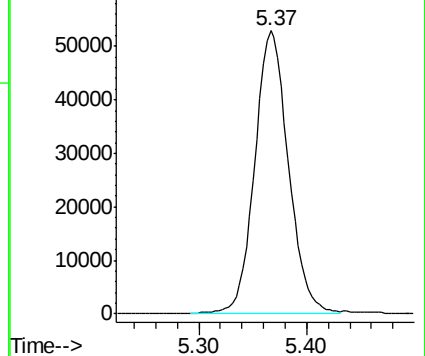
Acq: 15 Aug 2019 15:03

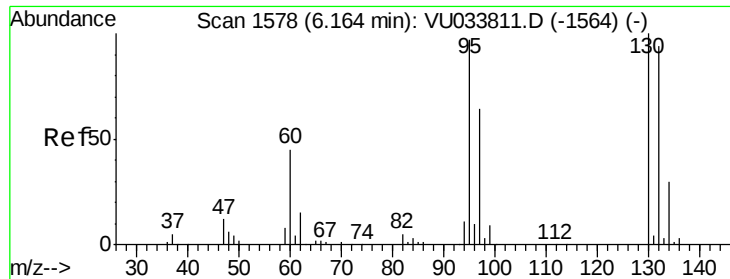
Tgt Ion: 78 Resp: 114939



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 11.208 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD01035

Tgt Ion: 95 Resp: 30723

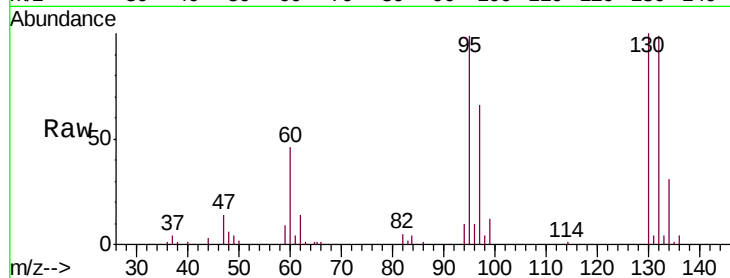
Ion Ratio Lower Upper

95 100

97 66.0 46.3 86.1

132 99.8 67.9 126.1

130 100.6 72.0 133.6



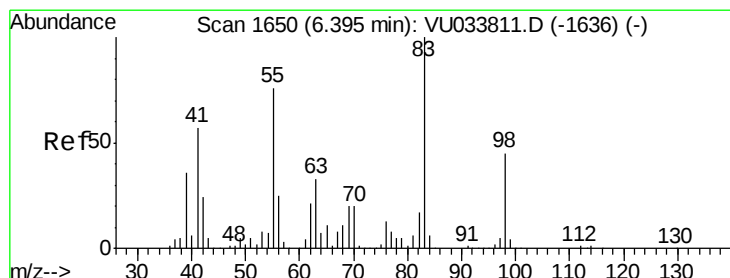
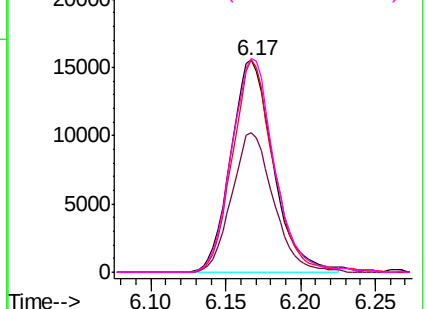
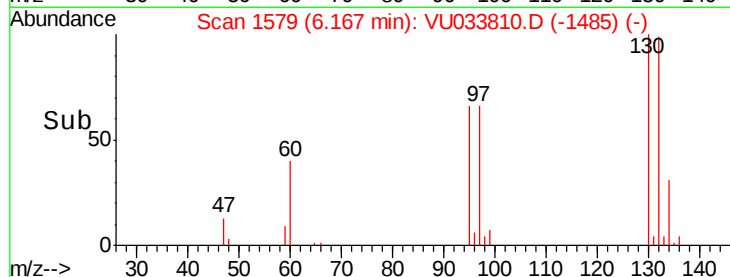
Abundance

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: 9.620 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

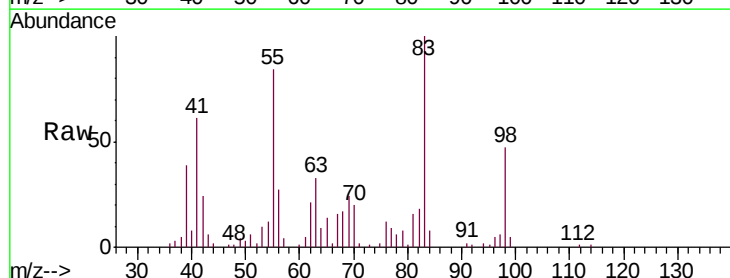
Tgt Ion: 83 Resp: 39890

Ion Ratio Lower Upper

83 100

55 81.7 61.6 92.4

98 44.7 37.2 55.8

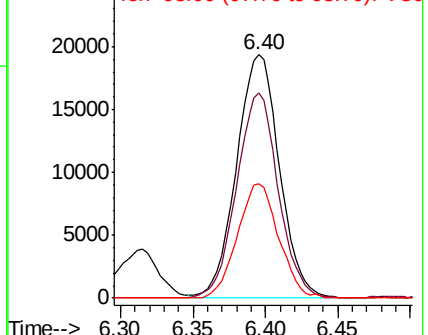
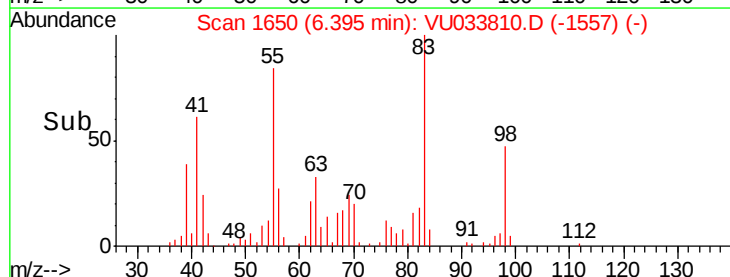


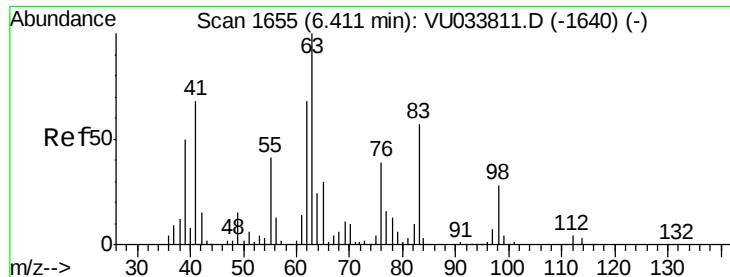
Abundance

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: 11.645 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

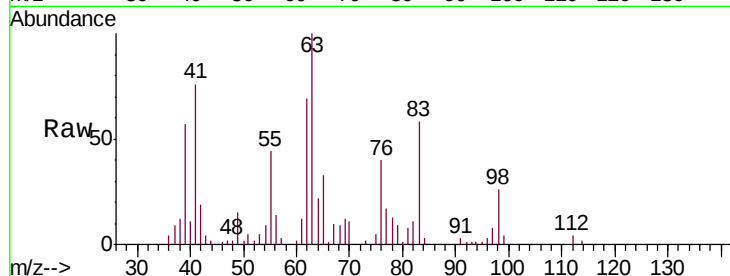
VSTD01035

Tgt Ion: 63 Resp: 32330

Ion Ratio Lower Upper

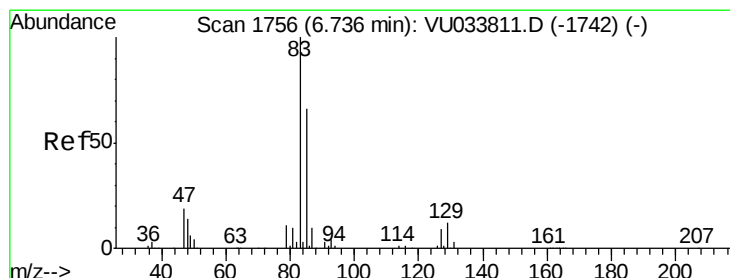
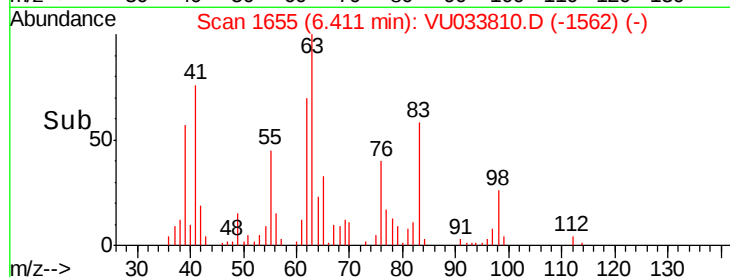
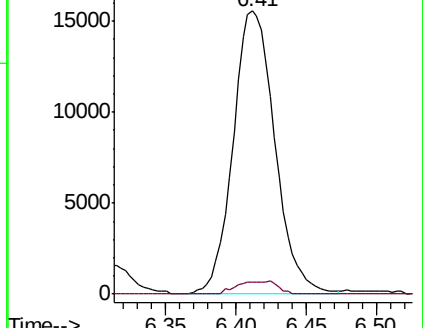
63 100

112 2.8 3.2 4.8#



Abundance Ion 63.00 (62.70 to 63.70): VU033811.D (-1640) (-)

Ion 112.00 (111.70 to 112.70): VU033811.D (-1640) (-)



#38

Bromodichloromethane

Concen: 11.624 ug/L

RT: 6.74 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

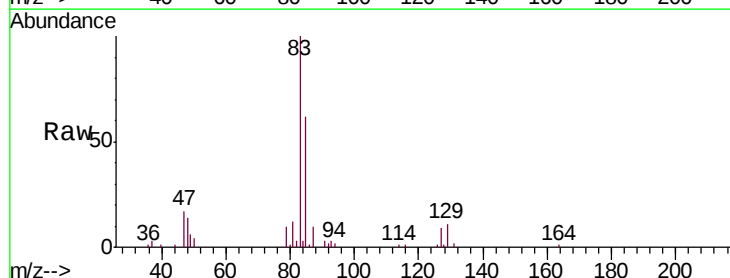
Tgt Ion: 83 Resp: 41404

Ion Ratio Lower Upper

83 100

85 61.7 45.9 85.3

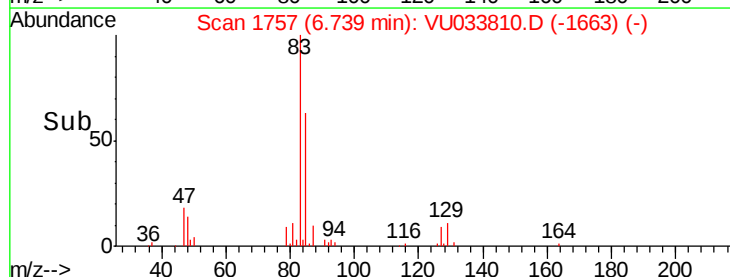
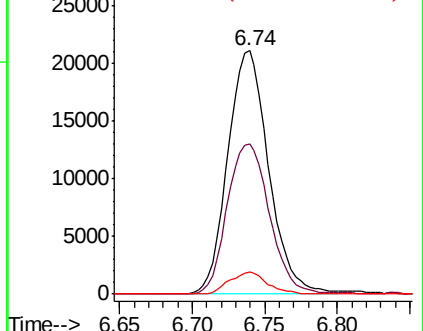
127 9.1 7.3 10.9

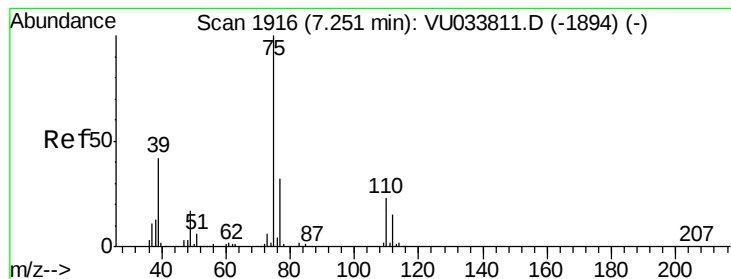


Abundance Ion 83.00 (82.70 to 83.70): VU033811.D (-1742) (-)

Ion 85.00 (84.70 to 85.70): VU033811.D (-1742) (-)

Ion 127.00 (126.70 to 127.70): VU033811.D (-1742) (-)



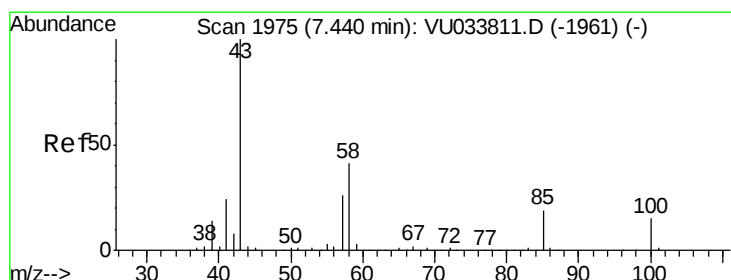
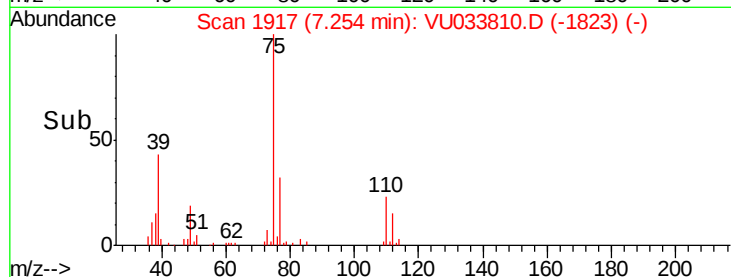
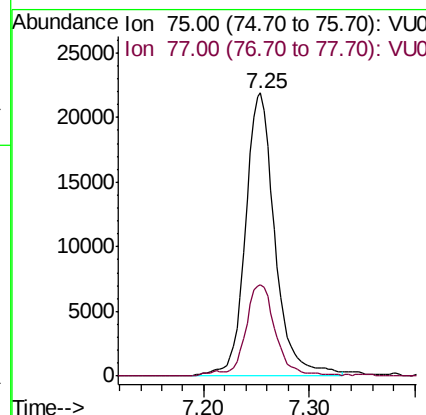
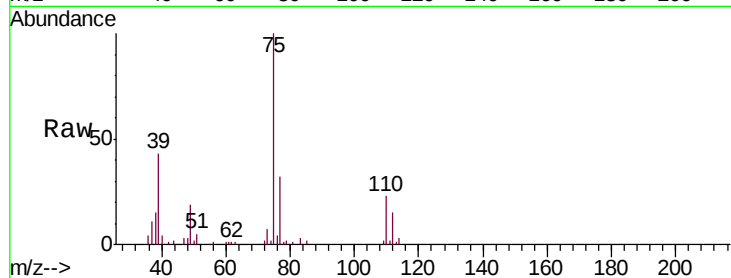


#39

cis-1,3-Dichloropropene
 Concen: 9.759 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01035

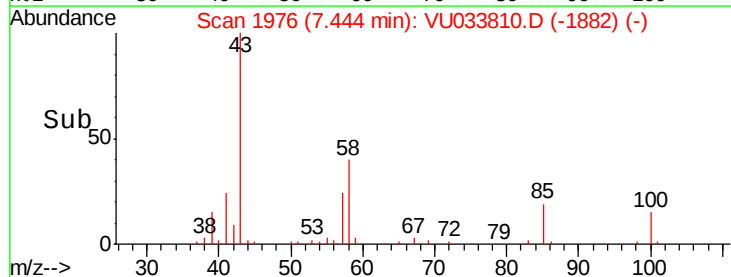
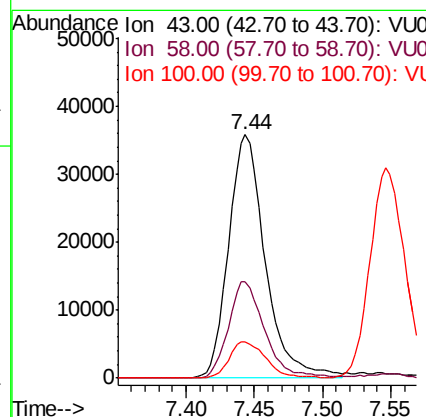
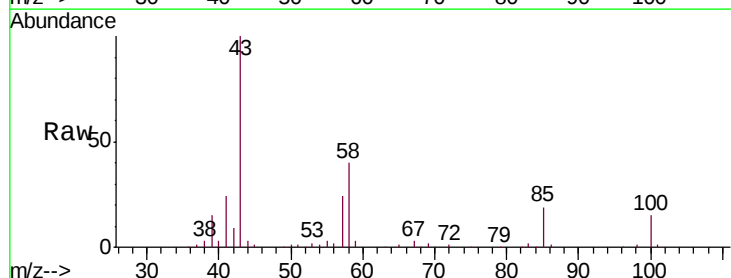
Tgt Ion: 75 Resp: 42641
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.5 41.7

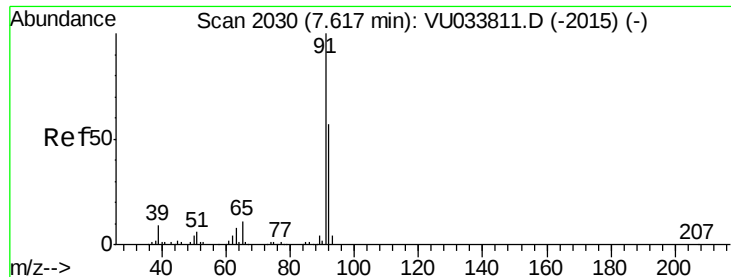


#40

4-Methyl-2-pentanone
 Concen: 16.881 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

Tgt Ion: 43 Resp: 67032
 Ion Ratio Lower Upper
 43 100
 58 39.0 32.6 49.0
 100 15.0 12.4 18.6





#42

Toluene

Concen: 10.331 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

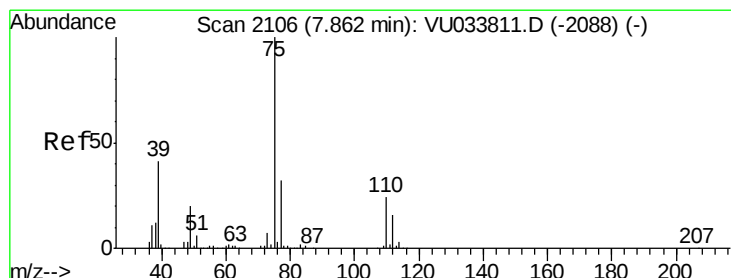
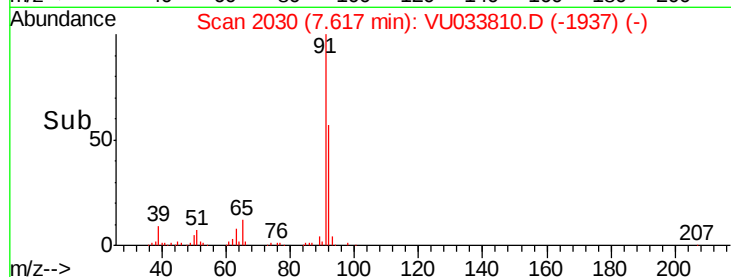
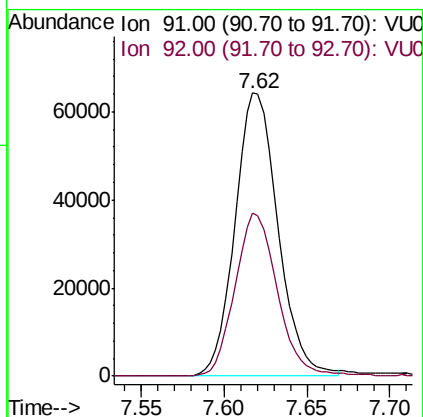
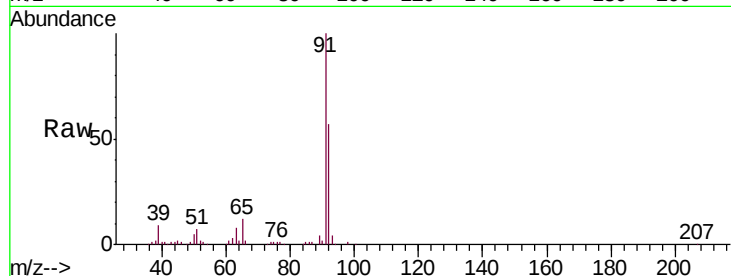
VSTD01035

Tgt Ion: 91 Resp: 115851

Ion Ratio Lower Upper

91 100

92 57.5 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 9.873 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033810.D

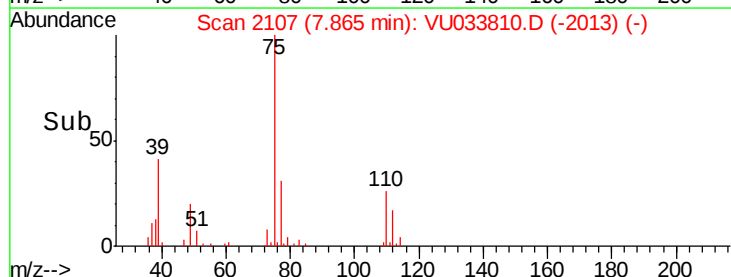
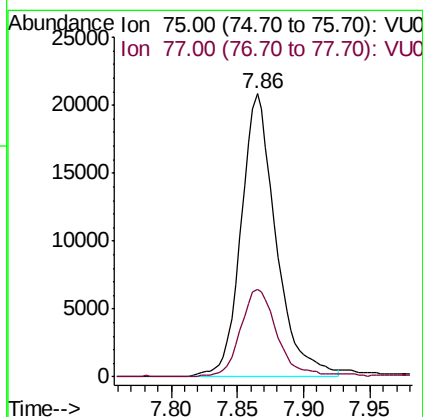
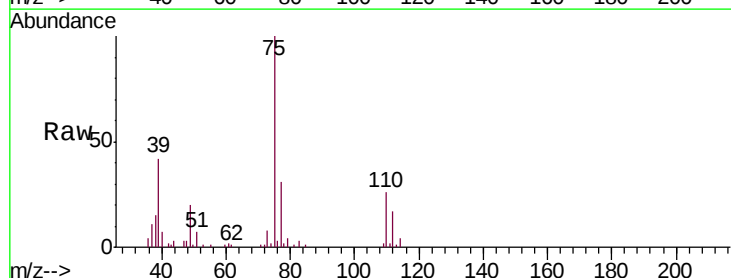
Acq: 15 Aug 2019 15:03

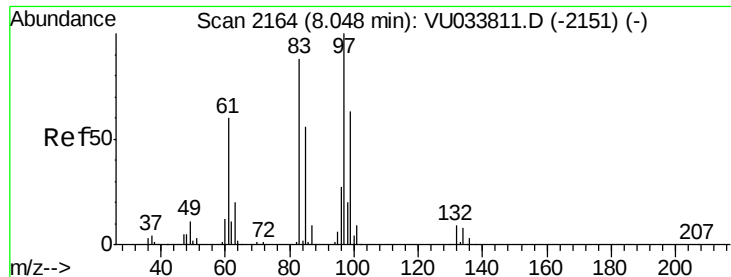
Tgt Ion: 75 Resp: 38352

Ion Ratio Lower Upper

75 100

77 31.0 22.5 41.9

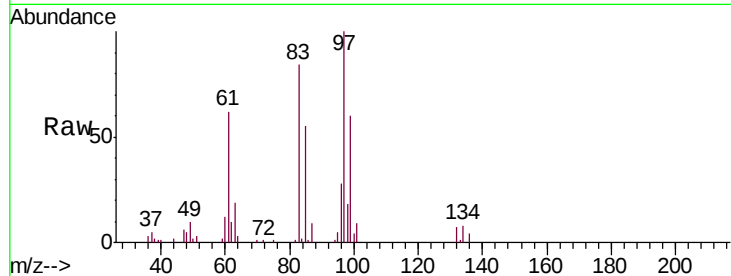




#45
 1,1,2-Trichloroethane
 Concen: 11.201 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01035

Tgt Ion:	97	Resp:	30112
Ion	Ratio	Lower	Upper
97	100		
99	59.9	43.9	81.5
83	83.5	61.7	114.5
85	54.8	39.2	72.8



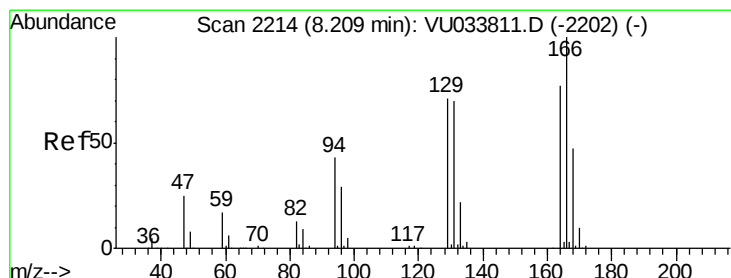
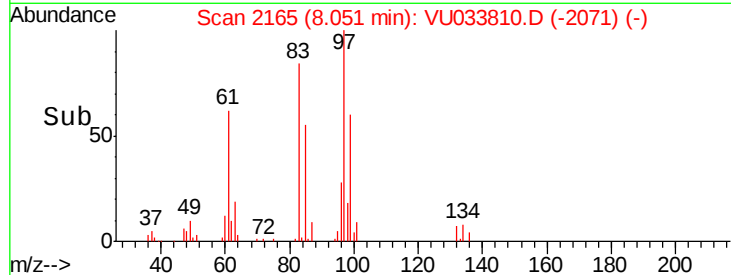
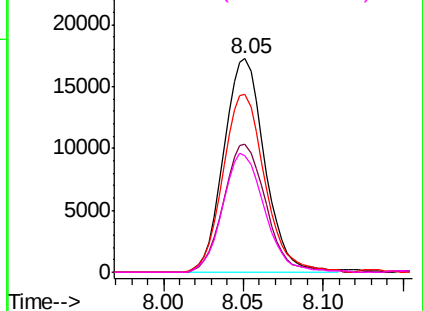
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

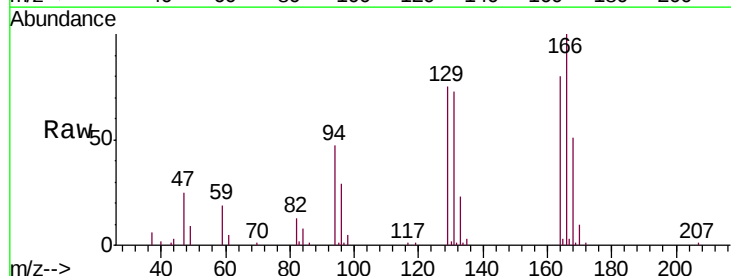
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 10.786 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

Tgt Ion:	164	Resp:	24135
Ion	Ratio	Lower	Upper
164	100		
129	94.2	64.4	119.6
131	91.3	63.8	118.4
166	124.7	90.9	168.7



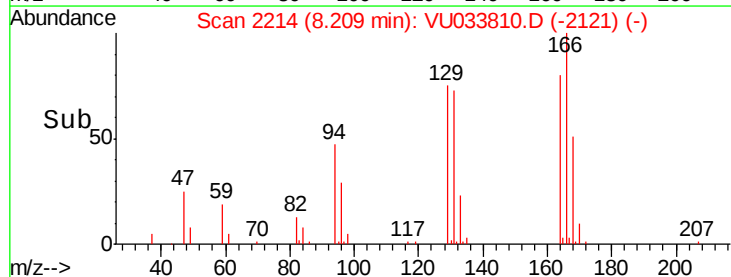
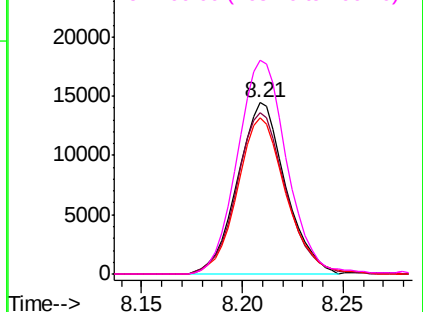
Abundance

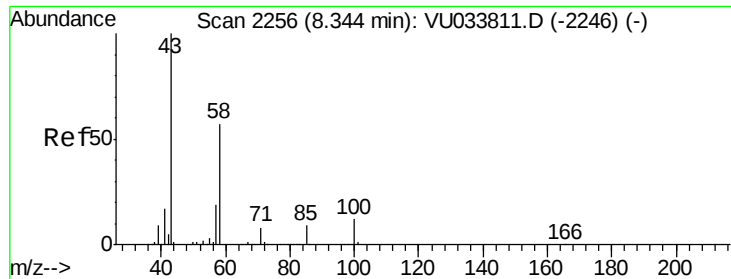
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

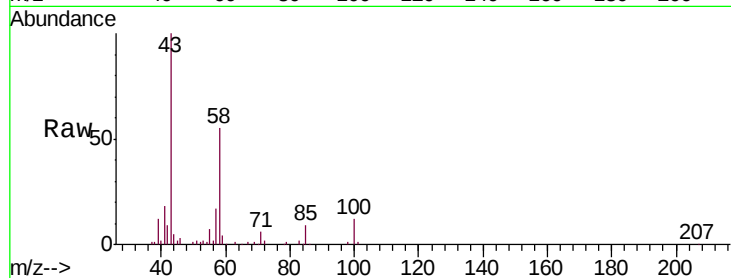




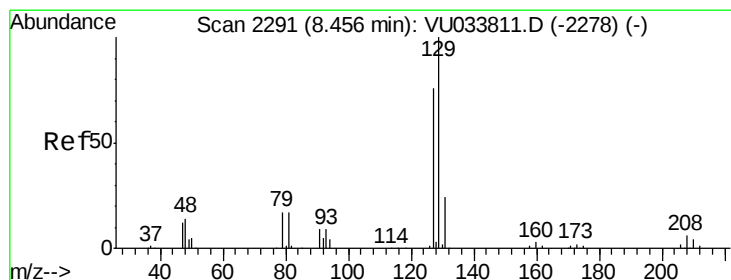
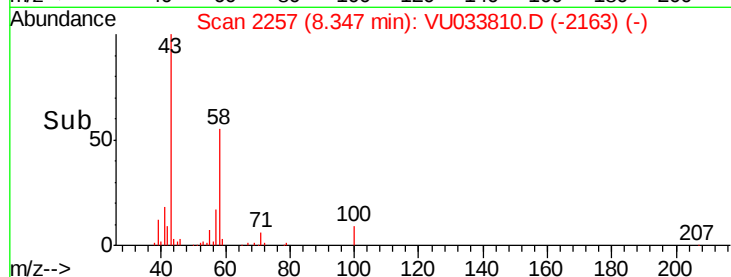
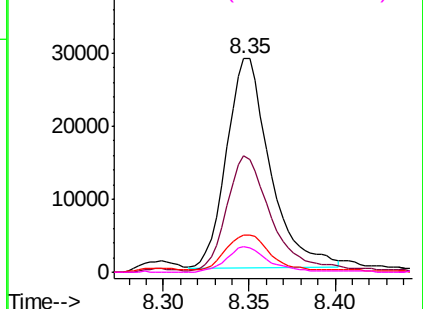
#48
2-Hexanone
Concen: 16.112 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033810.D
Acq: 15 Aug 2019 15:03

Instrument :
MSVOA_U
ClientSampleId :
VSTD01035

Tgt Ion:	43	Resp:	50556
Ion	Ratio	Lower	Upper
43	100		
58	56.2	45.0	67.4
57	18.8	15.4	23.0
100	11.6	9.6	14.4

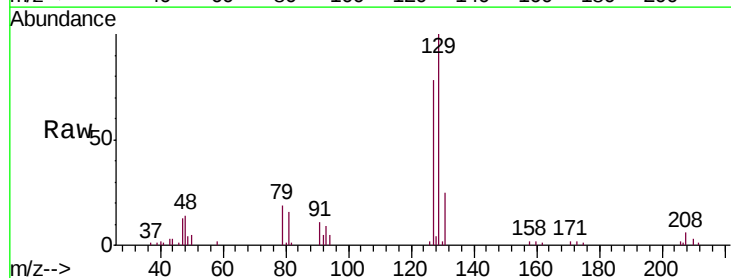


Abundance Ion 43.00 (42.70 to 43.70): VU033810.D (-2163) (-)
Ion 58.00 (57.70 to 58.70): VU033810.D (-2163) (-)
Ion 57.00 (56.70 to 57.70): VU033810.D (-2163) (-)
Ion 100.00 (99.70 to 100.70): VU033810.D (-2163) (-)

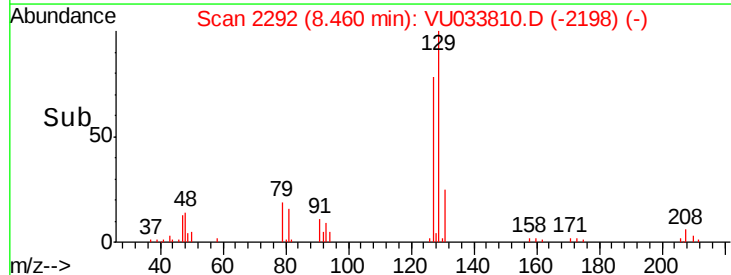
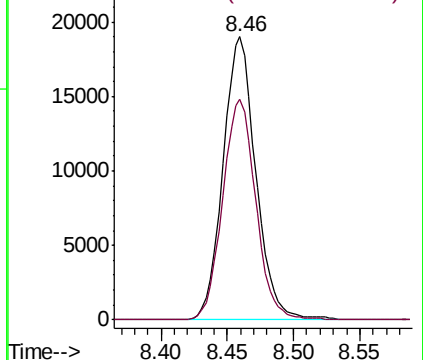


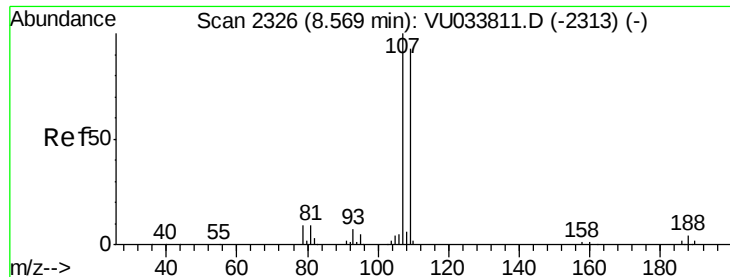
#49
Dibromochloromethane
Concen: 10.818 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033810.D
Acq: 15 Aug 2019 15:03

Tgt Ion:	129	Resp:	32713
Ion	Ratio	Lower	Upper
129	100		
127	77.8	53.4	99.2



Abundance Ion 129.00 (128.70 to 129.70): VU033810.D (-2198) (-)
Ion 127.00 (126.70 to 127.70): VU033810.D (-2198) (-)

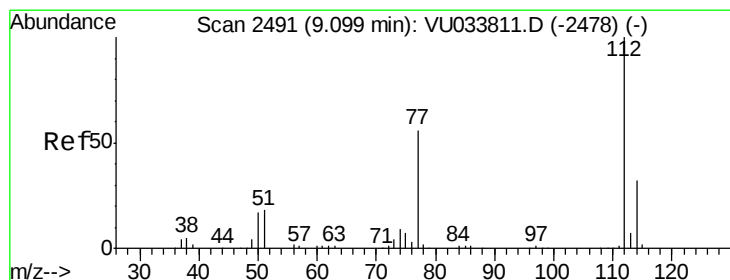
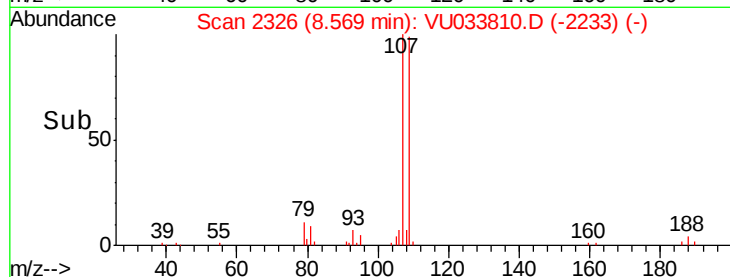
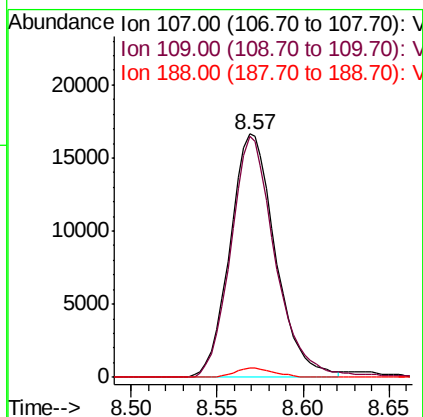
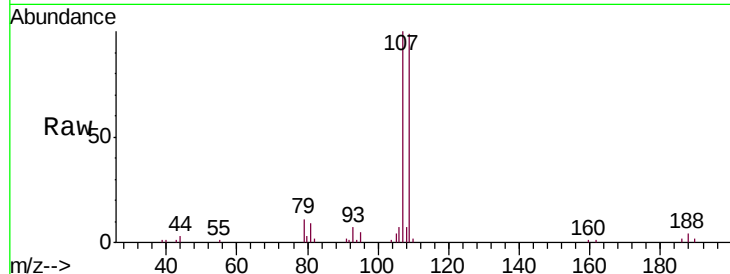




#50
 1,2-Dibromoethane
 Concen: 10.335 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

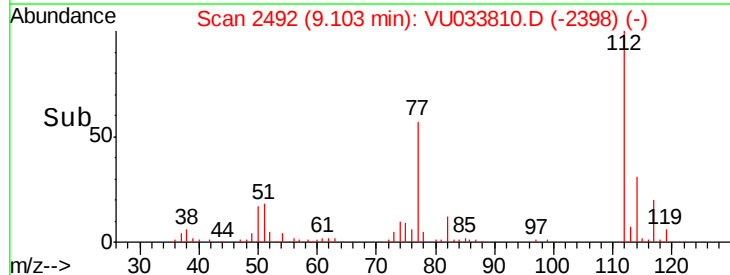
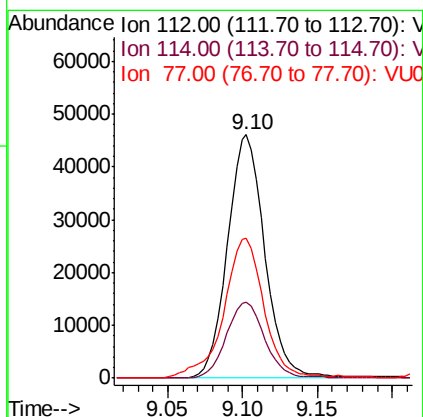
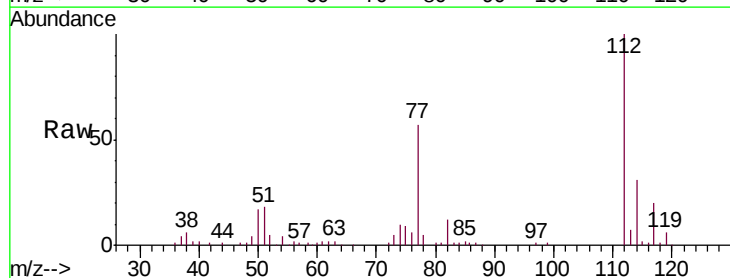
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01035

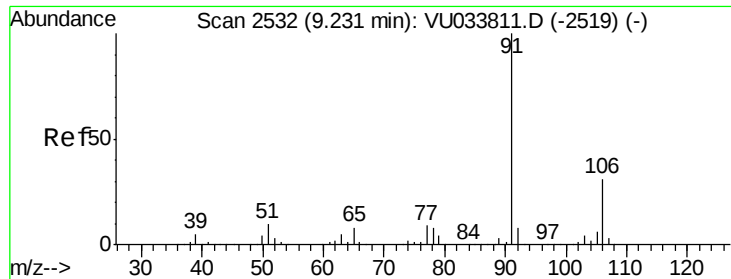
Tgt Ion:107 Resp: 30580
 Ion Ratio Lower Upper
 107 100
 109 98.8 64.8 120.3
 188 3.8 3.1 4.7



#51
 Chlorobenzene
 Concen: 10.903 ug/L
 RT: 9.10 min Scan# 2492
 Delta R.T. 0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

Tgt Ion:112 Resp: 79964
 Ion Ratio Lower Upper
 112 100
 114 31.3 22.5 41.9
 77 57.4 45.4 68.0





#52

Ethylbenzene

Concen: 9.665 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

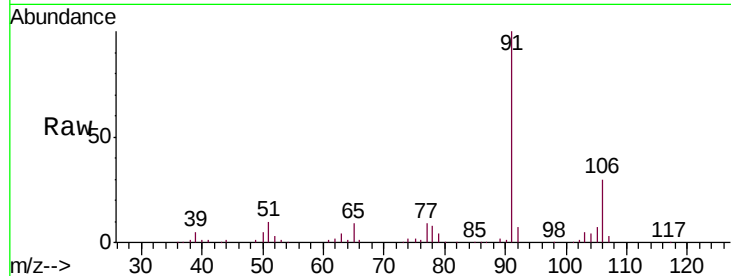
VSTD01035

Tgt Ion: 91 Resp: 117816

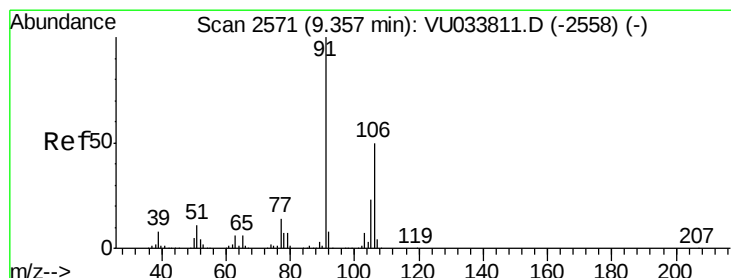
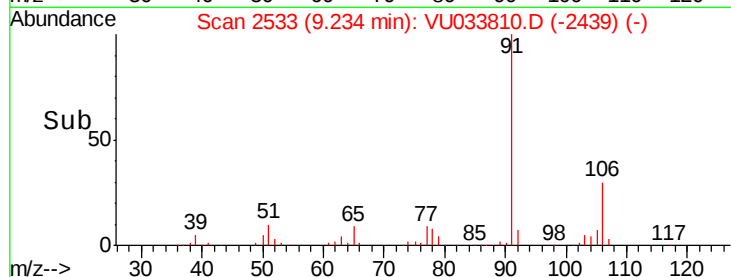
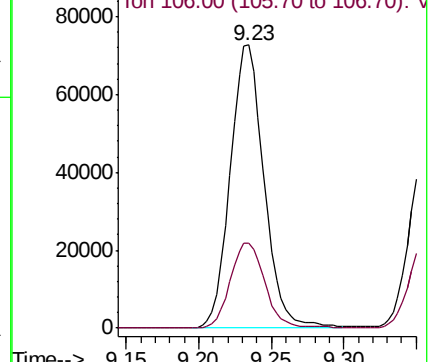
Ion Ratio Lower Upper

91 100

106 30.1 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VU033810.D (-2519) (-)



#53

m,p-Xylene

Concen: 9.424 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033810.D

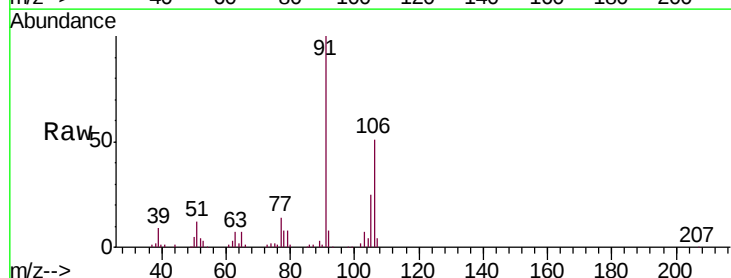
Acq: 15 Aug 2019 15:03

Tgt Ion: 106 Resp: 43802

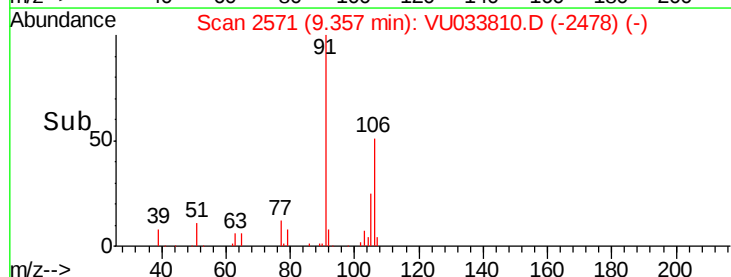
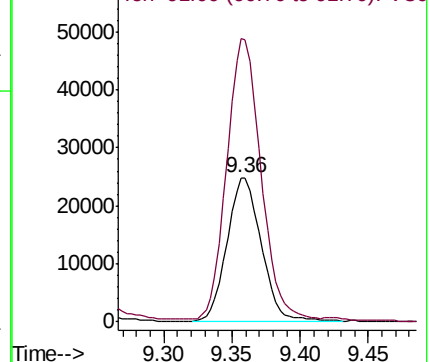
Ion Ratio Lower Upper

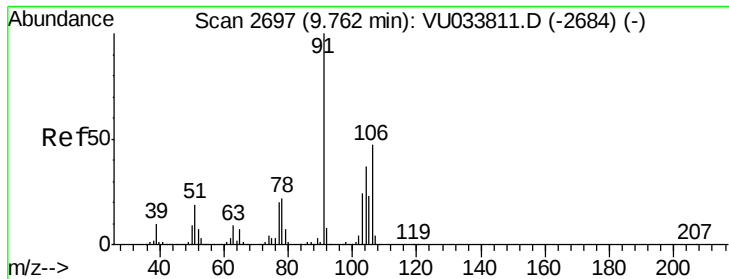
106 100

91 196.6 140.9 261.7



Abundance Ion 106.00 (105.70 to 106.70): VU033810.D (-2478) (-)





#54

o-xylene

Concen: 8.811 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

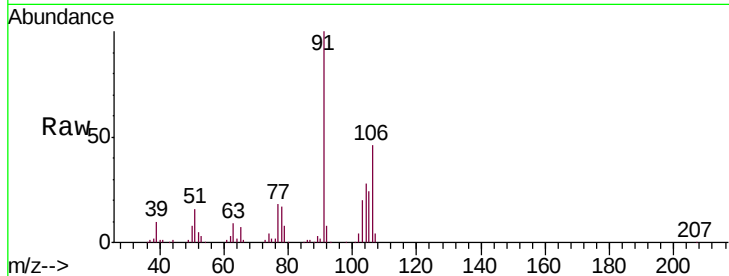
VSTD01035

Tgt Ion:106 Resp: 40427

Ion Ratio Lower Upper

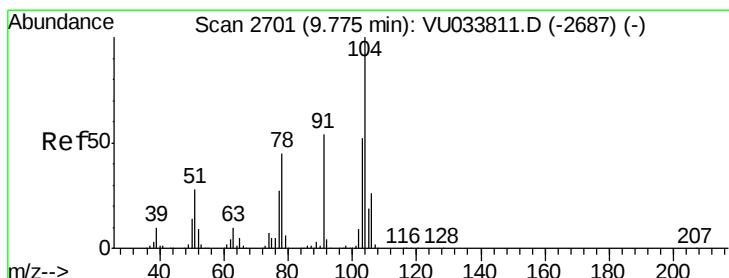
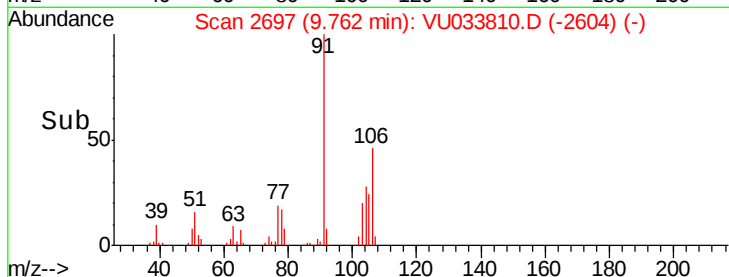
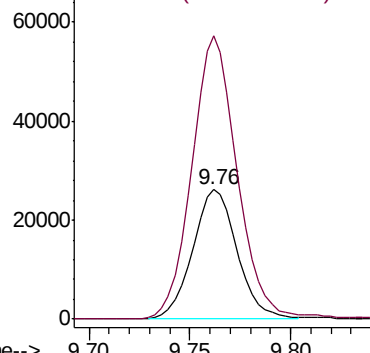
106 100

91 218.2 147.8 274.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 8.958 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033810.D

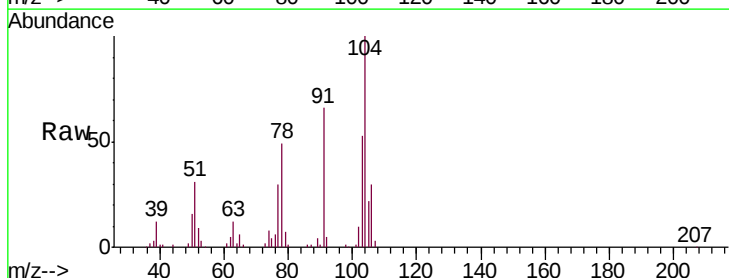
Acq: 15 Aug 2019 15:03

Tgt Ion:104 Resp: 69295

Ion Ratio Lower Upper

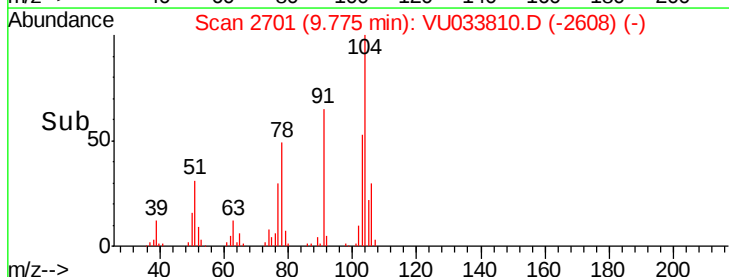
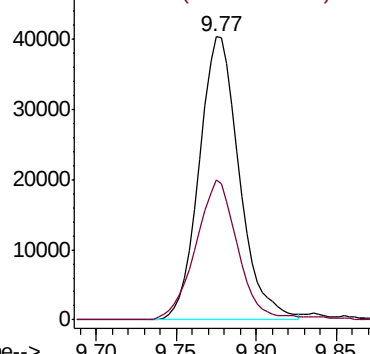
104 100

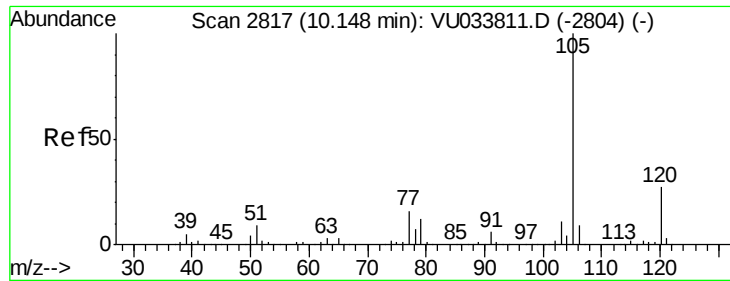
78 49.3 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 9.118 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD01035

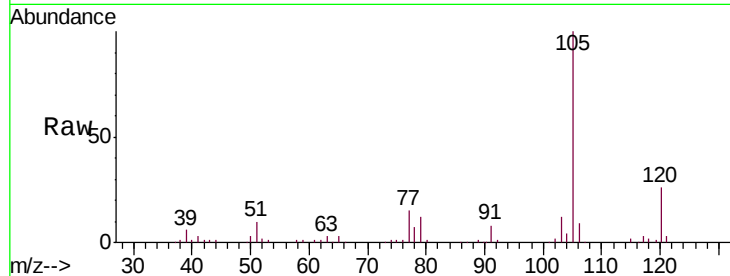
Tgt Ion: 105 Resp: 109410

Ion Ratio Lower Upper

105 100

120 26.3 21.4 32.0

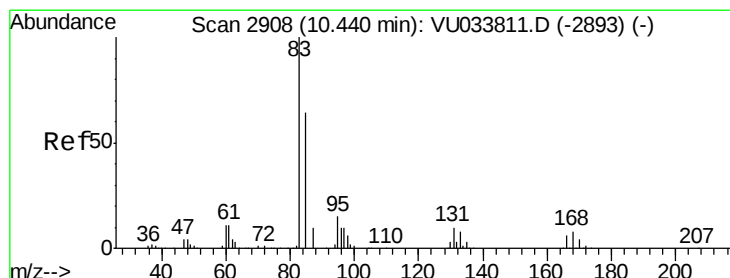
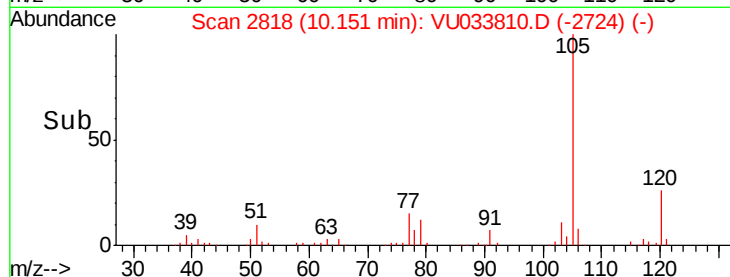
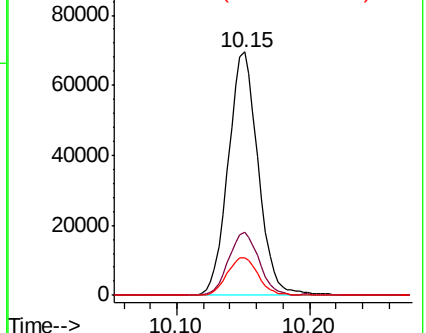
77 16.1 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 10.136 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

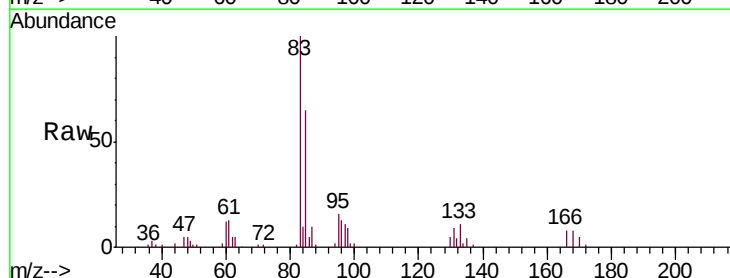
Tgt Ion: 83 Resp: 47273

Ion Ratio Lower Upper

83 100

85 65.1 44.6 82.8

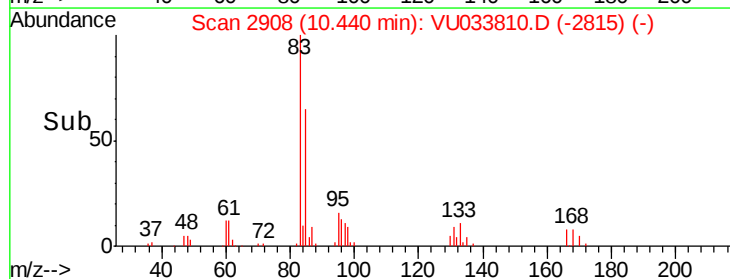
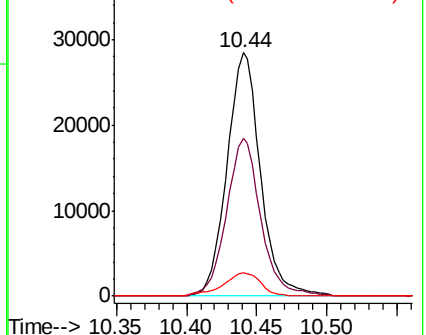
131 9.4 7.8 11.6

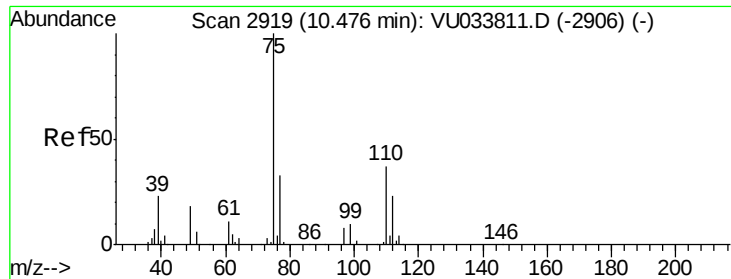


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 10.294 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

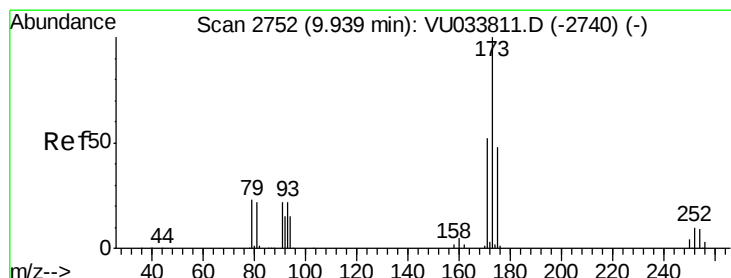
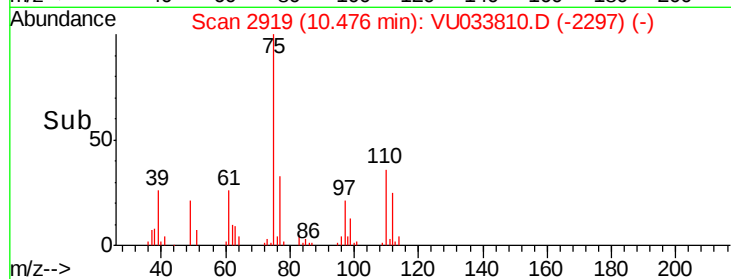
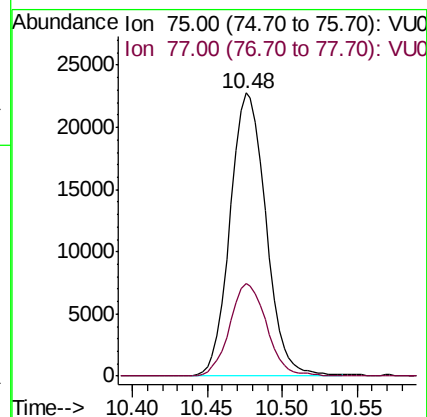
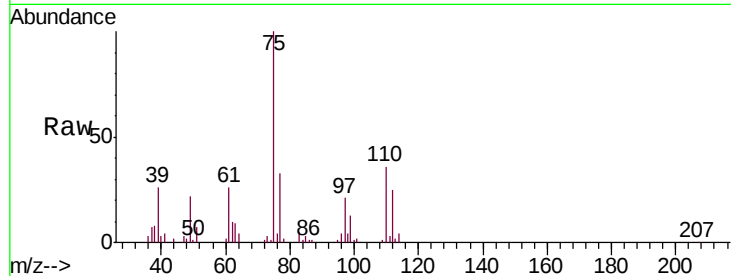
VSTD01035

Tgt Ion: 75 Resp: 38104

Ion Ratio Lower Upper

75 100

77 33.5 26.0 39.0



#61

Bromoform

Concen: 10.708 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

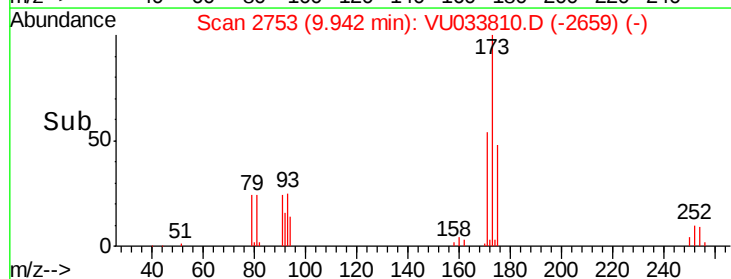
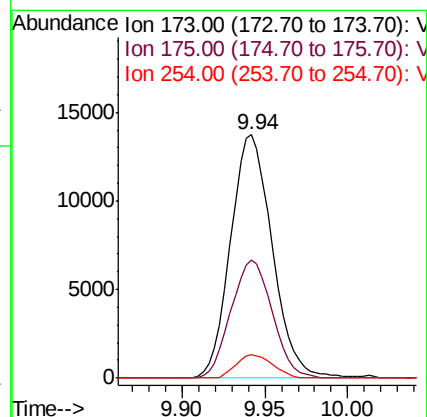
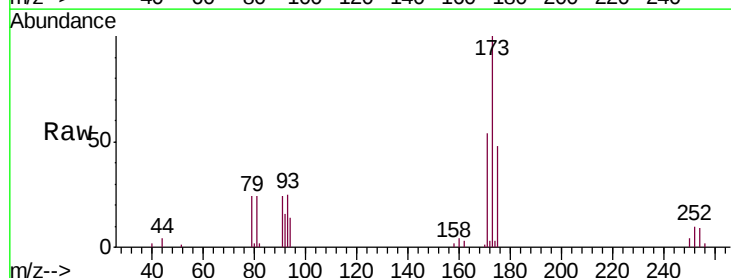
Tgt Ion: 173 Resp: 24000

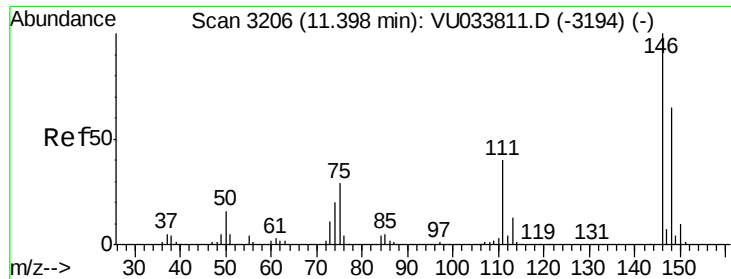
Ion Ratio Lower Upper

173 100

175 47.9 38.8 58.2

254 8.4 7.4 11.0

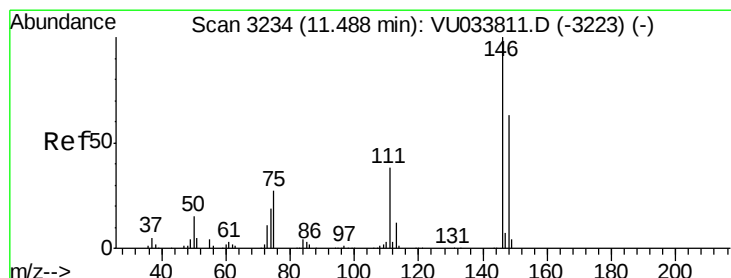
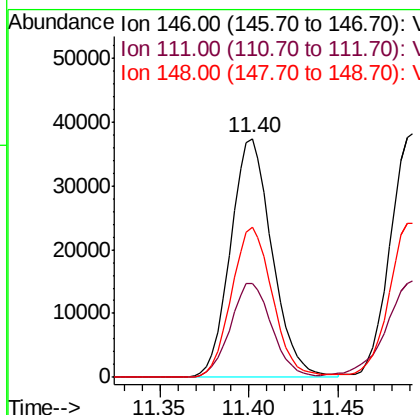
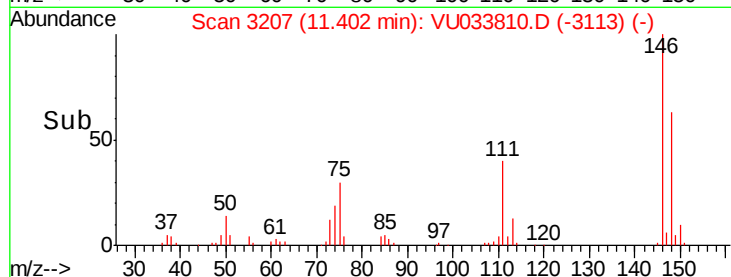
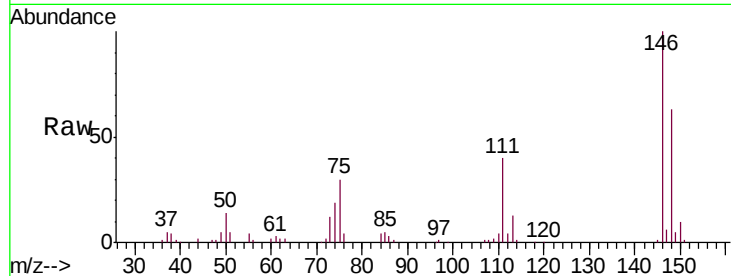




#62
 1,3-Dichlorobenzene
 Concen: 10.658 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

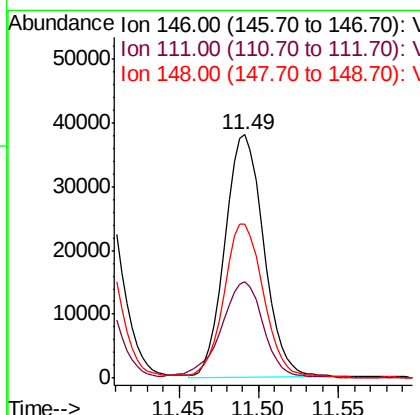
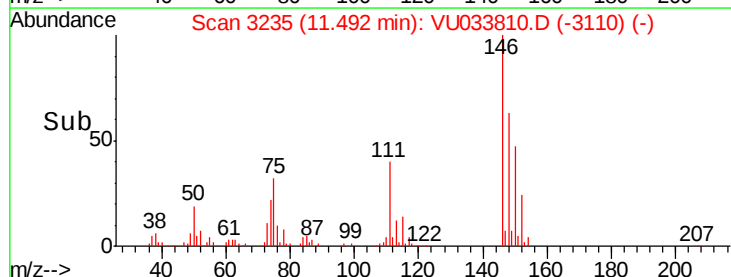
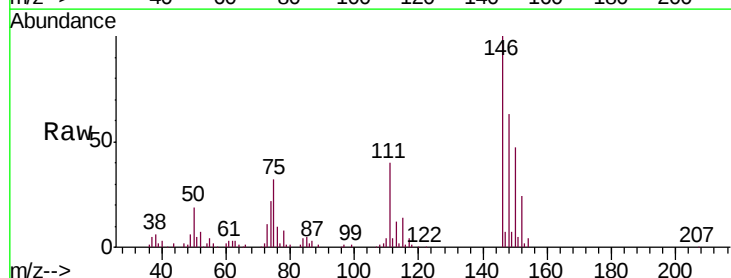
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01035

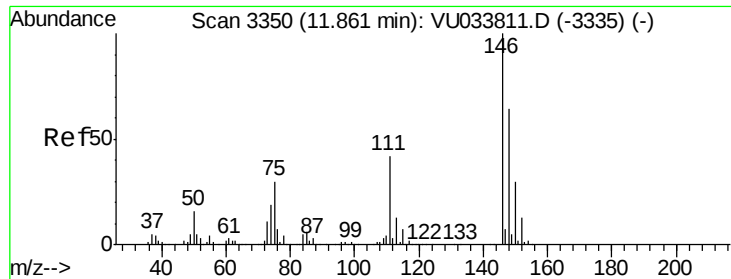
Tgt Ion:146 Resp: 60566
 Ion Ratio Lower Upper
 146 100
 111 39.6 28.1 52.1
 148 62.9 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 10.875 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

Tgt Ion:146 Resp: 62649
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.0 50.2
 148 63.3 44.5 82.7

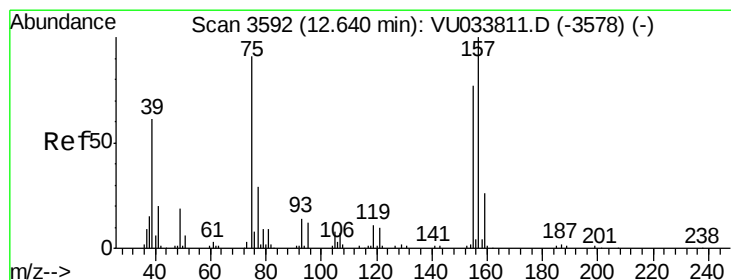
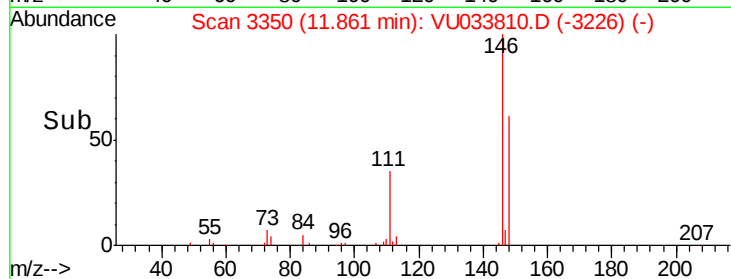
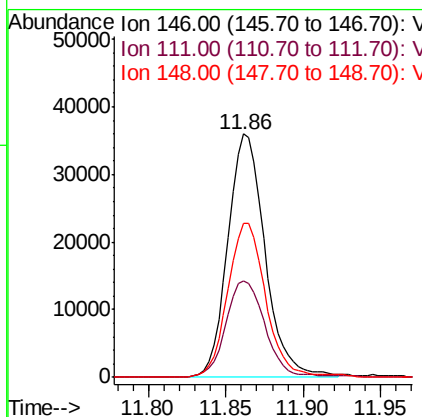
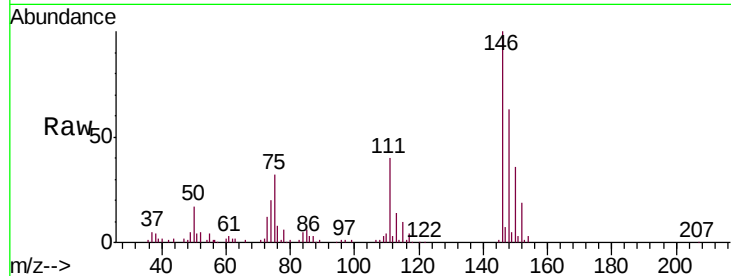




#65
 1,2-Dichlorobenzene
 Concen: 10.699 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

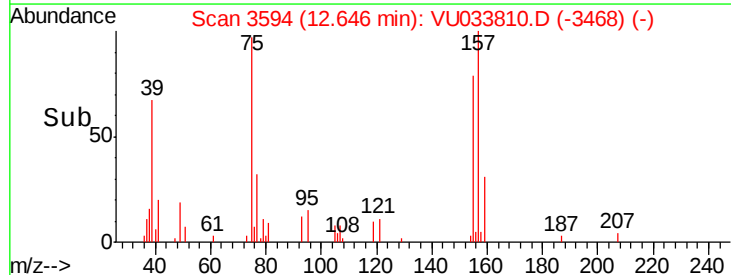
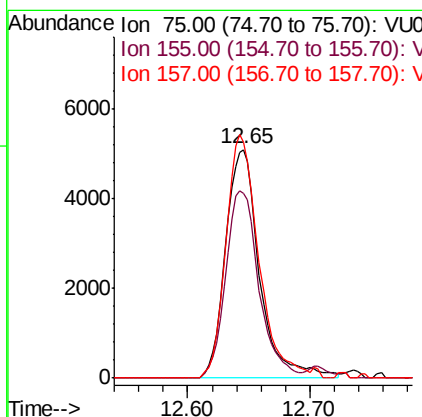
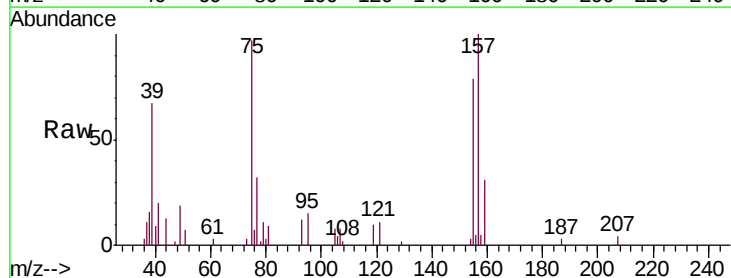
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01035

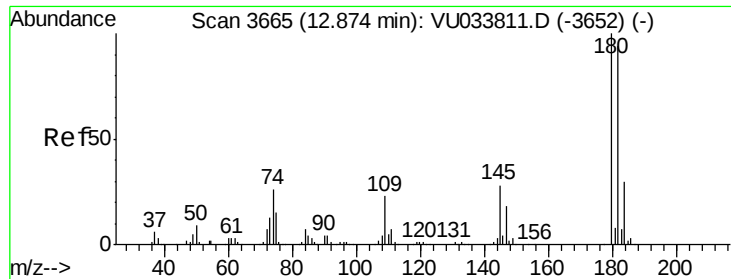
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	33.8	50.6
148	63.0	51.0	76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 9.630 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.01 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.1	67.5	101.3
157	103.2	87.7	131.5

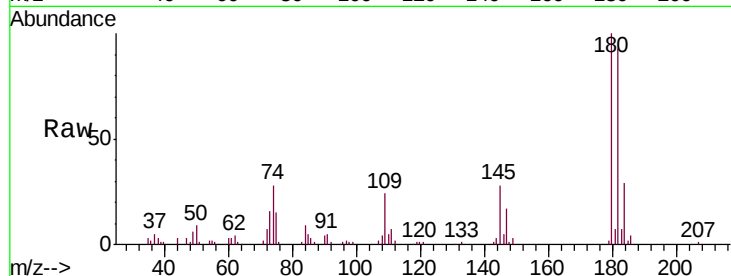




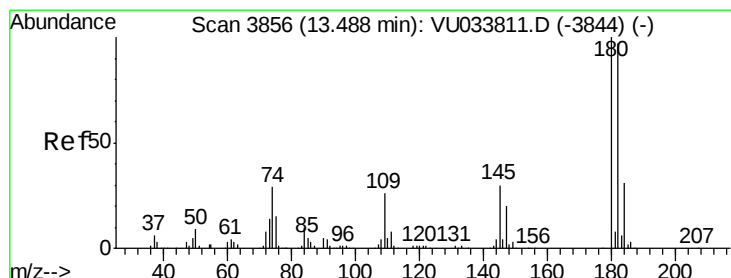
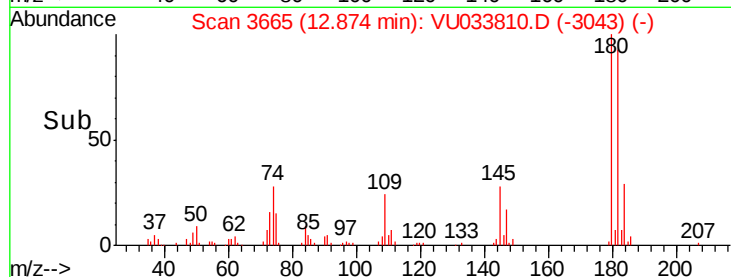
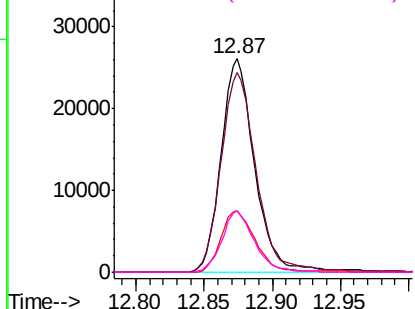
#67
 1,3,5-Trichlorobenzene
 Concen: 9.965 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01035

Tgt Ion:180 Resp: 44622
 Ion Ratio Lower Upper
 180 100
 182 97.2 75.8 113.8
 184 29.4 23.8 35.8
 145 27.5 22.9 34.3

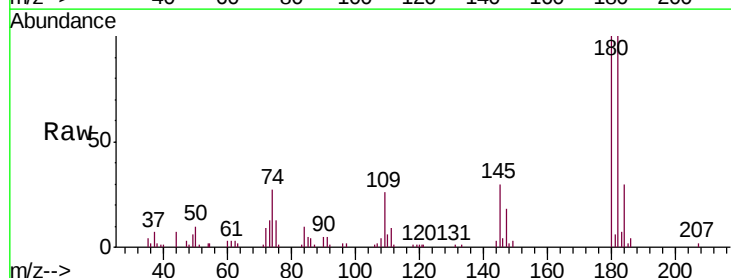


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

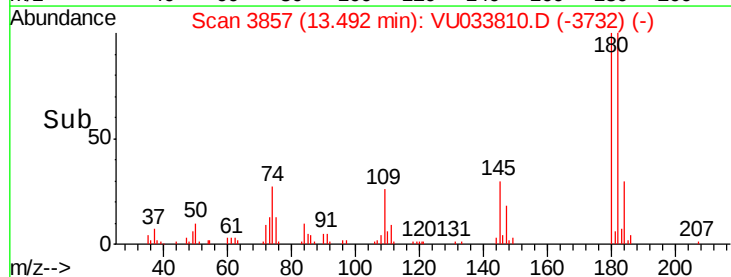
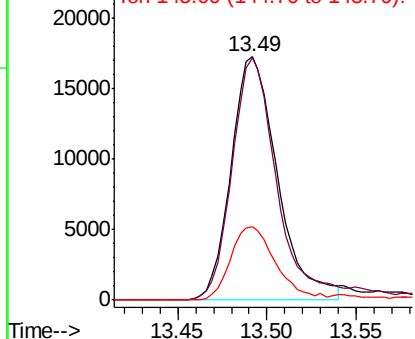


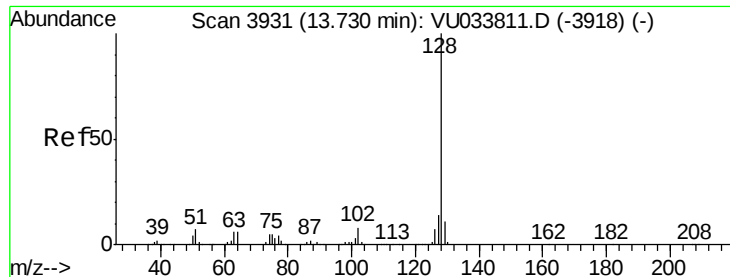
#68
 1,2,4-trichlorobenzene
 Concen: 7.841 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033810.D
 Acq: 15 Aug 2019 15:03

Tgt Ion:180 Resp: 31216
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.2 114.2
 145 28.9 23.8 35.8



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: 6.428 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD01035

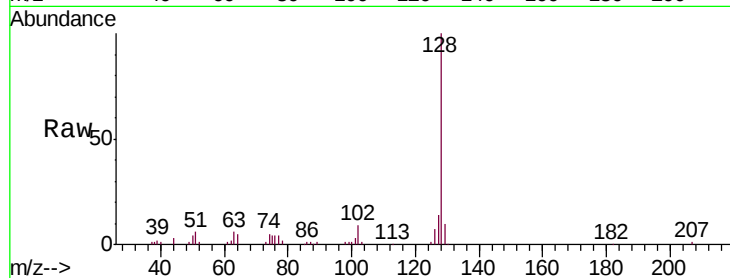
Tgt Ion:128 Resp: 75946

Ion Ratio Lower Upper

128 100

127 12.9 10.7 16.1

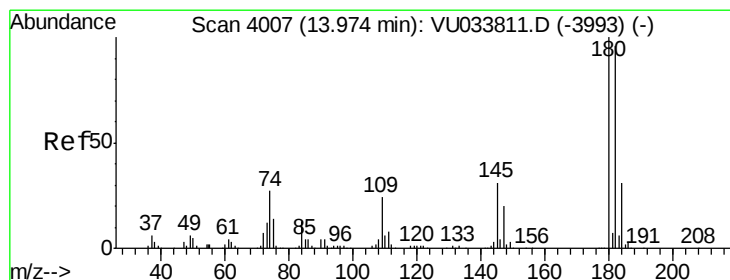
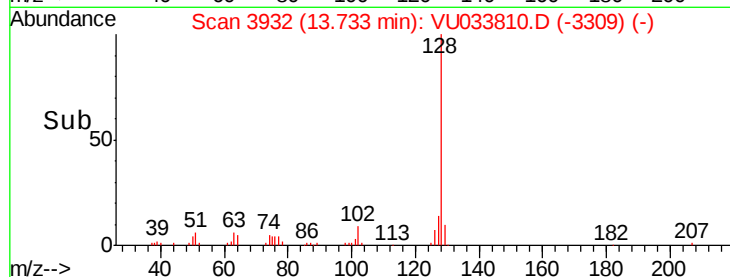
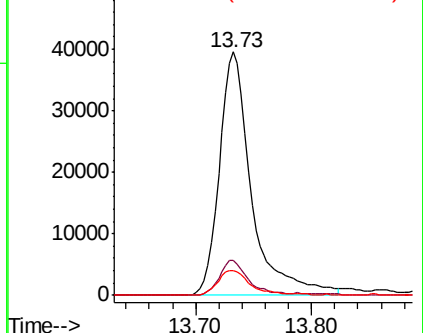
129 10.5 8.6 12.8



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: 8.306 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033810.D

Acq: 15 Aug 2019 15:03

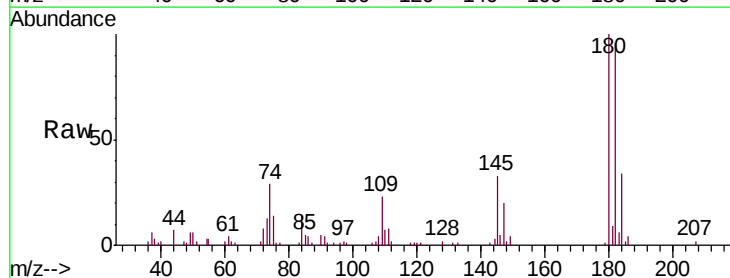
Tgt Ion:180 Resp: 34663

Ion Ratio Lower Upper

180 100

182 94.9 75.9 113.9

145 30.5 24.5 36.7



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

