

Data File : VU028968.D
Acq On : 27 Dec 2018 16:27
Operator : MD/SY
Sample : VSTD00543
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00543

Quant Time: Dec 28 02:09:44 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR122818WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 28 02:05:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	139537	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	128942	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	64057	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	35722	4.78	ug/L	0.00
7) Chloroethane-d5	1.68	69	30894	4.74	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	72140	4.56	ug/L	0.00
20) 2-Butanone-d5	4.19	46	96342	49.36	ug/L	0.00
24) Chloroform-d	4.65	84	69229	4.77	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	34634	4.68	ug/L	0.00
32) Benzene-d6	5.34	84	144384	4.79	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	46719	4.85	ug/L	0.00
41) Toluene-d8	7.56	98	132611	4.75	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	17220	4.75	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	82126	49.72	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	37072	4.83	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	50545	4.72	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	55444	4.537 ug/L	100
3) Chloromethane	1.33	50	61432	4.505 ug/L	100
5) Vinyl chloride	1.40	62	64610	4.637 ug/L	100
6) Bromomethane	1.63	94	28766	4.460 ug/L	100
8) Chloroethane	1.70	64	36159	4.548 ug/L	100
9) Trichlorofluoromethane	1.89	101	73799	4.632 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	46962	4.567 ug/L	100
12) 1,1-Dichloroethene	2.29	96	45892	4.590 ug/L	100
13) Acetone	2.32	43	71667	45.491 ug/L	100
14) Carbon disulfide	2.48	76	160278	4.588 ug/L	100
15) Methyl Acetate	2.62	43	19995	4.332 ug/L	100
16) Methylene chloride	2.70	84	53971	3.771 ug/L	100
17) Methyl tert-butyl Ether	3.00	73	114628	4.670 ug/L	100
18) trans-1,2-Dichloroethene	2.98	96	50529	4.604 ug/L	100
19) 1,1-Dichloroethane	3.44	63	87152	4.677 ug/L	100
21) 2-Butanone	4.28	43	111240	47.196 ug/L	100
22) cis-1,2-Dichloroethene	4.22	96	52639	4.636 ug/L	100
23) Bromochloromethane	4.55	128	21623	4.693 ug/L	100
25) Chloroform	4.67	83	80765	4.562 ug/L	100
27) 1,2-Dichloroethane	5.40	62	48148	4.597 ug/L	100
29) 1,1,1-Trichloroethane	4.91	97	67293	4.752 ug/L	100
30) Cyclohexane	4.99	56	79795	4.703 ug/L	100
31) Carbon tetrachloride	5.13	117	53486	4.743 ug/L	100
33) Benzene	5.39	78	195471	4.741 ug/L	100
34) Trichloroethene	6.18	95	49744	4.719 ug/L	100
35) Methylcyclohexane	6.41	83	83583	4.616 ug/L	100
37) 1,2-Dichloropropane	6.43	63	50275	4.786 ug/L	100
38) Bromodichloromethane	6.76	83	55681	4.708 ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	71278	4.733 ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	267577	47.874 ug/L	100

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	206582	4.681	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	56412	4.806	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	34140	4.776	ug/L	100
47) Tetrachloroethene	8.22	164	39986	4.580	ug/L	100
48) 2-Hexanone	8.36	43	188628	48.789	ug/L	100
49) Dibromochloromethane	8.48	129	36264	4.778	ug/L	100
50) 1,2-Dibromoethane	8.58	107	32332	4.835	ug/L	100
51) Chlorobenzene	9.12	112	130986	4.732	ug/L	100
52) Ethylbenzene	9.25	91	218967	4.677	ug/L	100
53) m,p-xylene	9.37	106	85695	4.810	ug/L	100
54) o-xylene	9.78	106	82695	4.781	ug/L	100
55) Styrene	9.79	104	137538	4.778	ug/L	100
56) Isopropylbenzene	10.16	105	215138	4.716	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	42508	4.858	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	29408	4.802	ug/L	100
61) Bromoform	9.96	173	21291	4.871	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	101229	4.675	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	101259	4.583	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	95371	4.654	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	5714	4.723	ug/L	100
67) 1,3,5-Trichlorobenzene	12.89	180	79987	4.774	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	67600	4.841	ug/L	100
69) Naphthalene	13.74	128	118769	4.973	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	62477	4.691	ug/L	100

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

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Instrument :
MSVOA_U
ClientSampleId :
VSTD00543

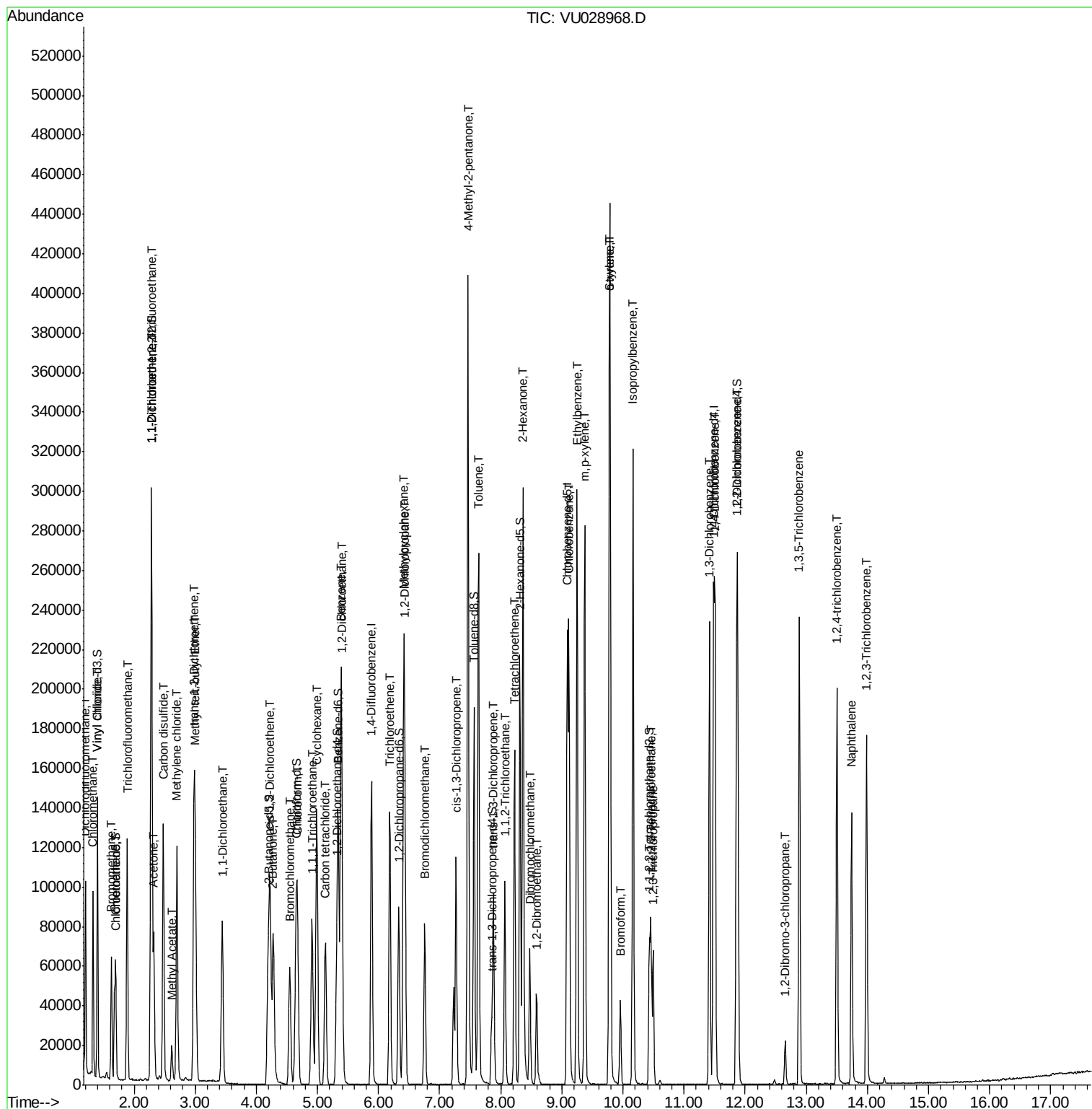
Quant Time: Dec 28 02:09:44 2018

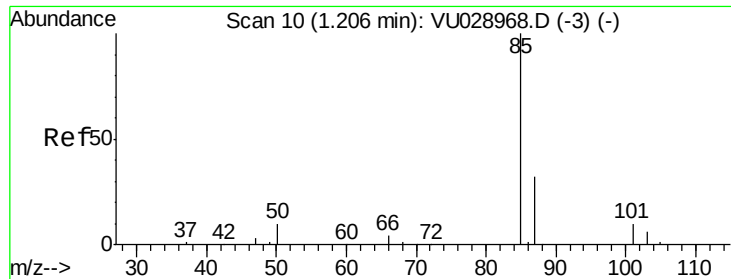
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR122818WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Dec 28 02:05:59 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.537 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

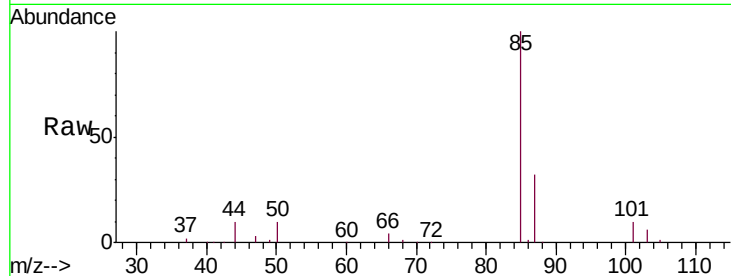
VSTD00543

Tgt Ion: 85 Resp: 55444

Ion Ratio Lower Upper

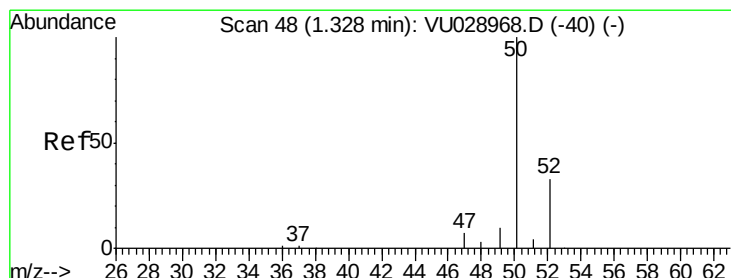
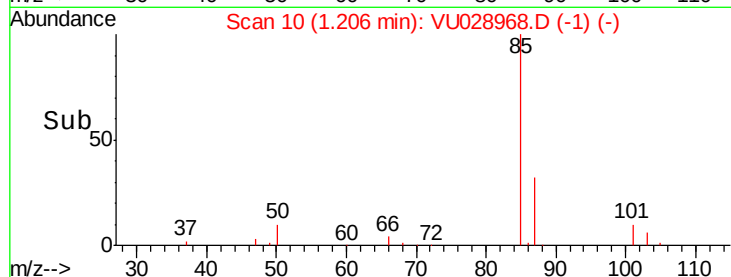
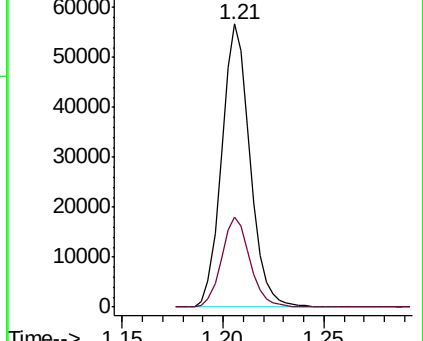
85 100

87 31.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU028968.D (-3) (-)

Ion 87.00 (86.70 to 87.70): VU028968.D (-3) (-)



#3

Chloromethane

Concen: 4.505 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028968.D

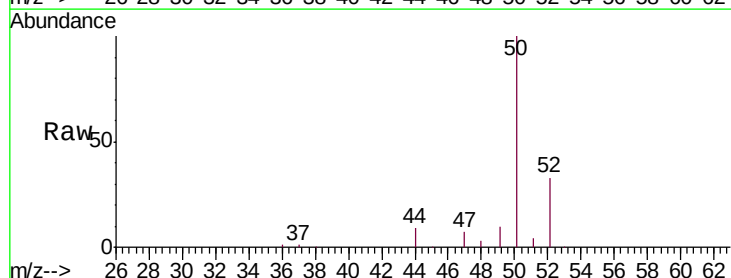
Acq: 27 Dec 2018 16:27

Tgt Ion: 50 Resp: 61432

Ion Ratio Lower Upper

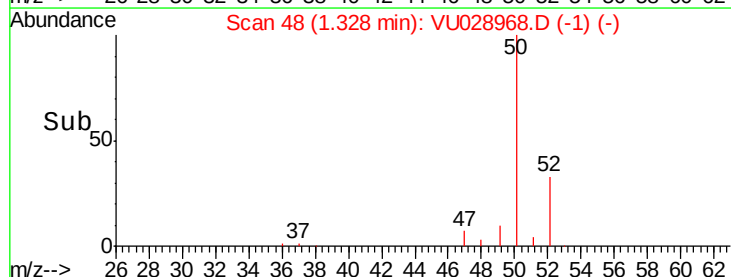
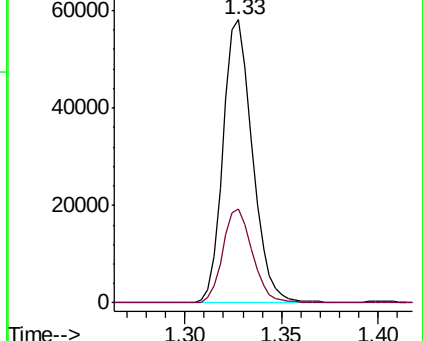
50 100

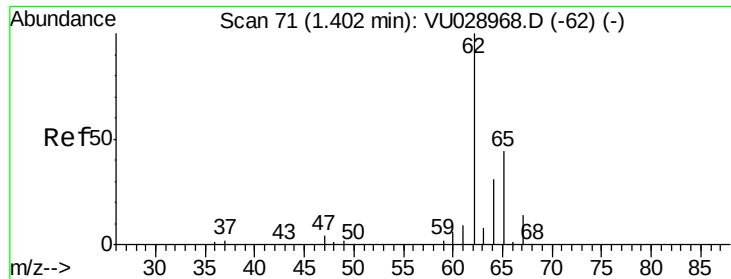
52 33.3 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU028968.D (-40) (-)

Ion 52.05 (51.75 to 52.75): VU028968.D (-40) (-)





#5

Vinyl chloride

Concen: 4.637 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

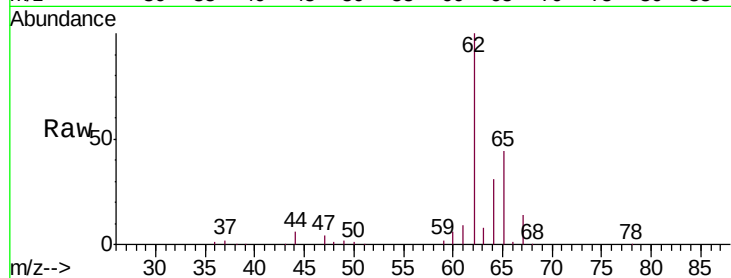
VSTD00543

Tgt Ion: 62 Resp: 64610

Ion Ratio Lower Upper

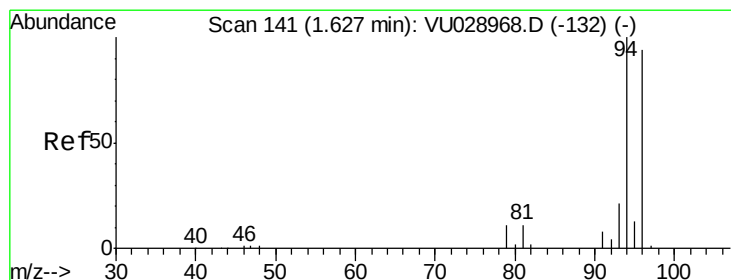
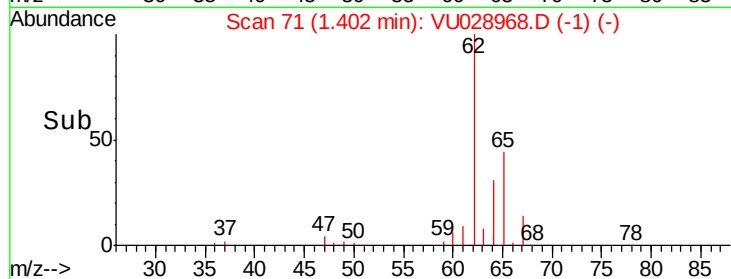
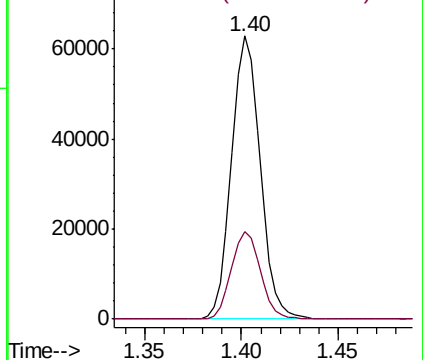
62 100

64 30.9 21.6 40.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.460 ug/L

RT: 1.63 min Scan# 141

Delta R.T. 0.00 min

Lab File: VU028968.D

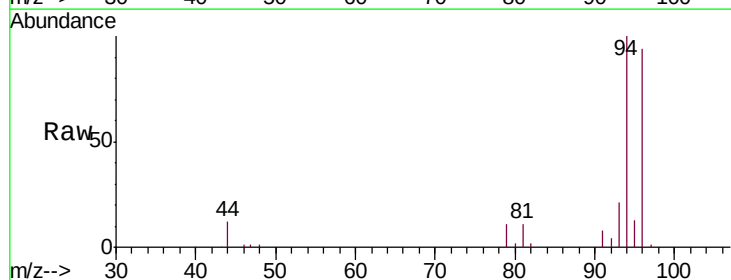
Acq: 27 Dec 2018 16:27

Tgt Ion: 94 Resp: 28766

Ion Ratio Lower Upper

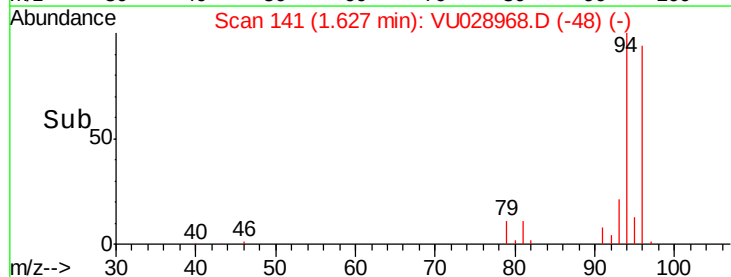
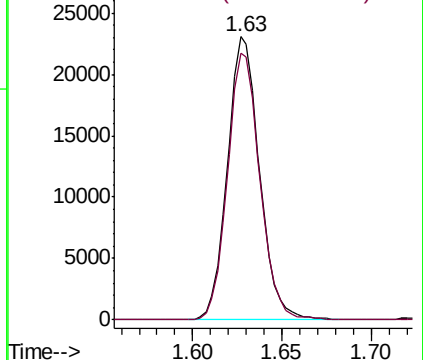
94 100

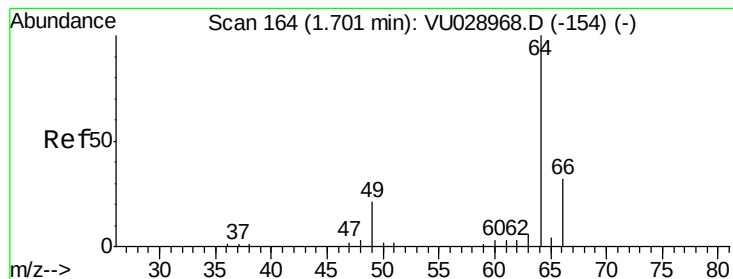
96 94.3 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.548 ug/L

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

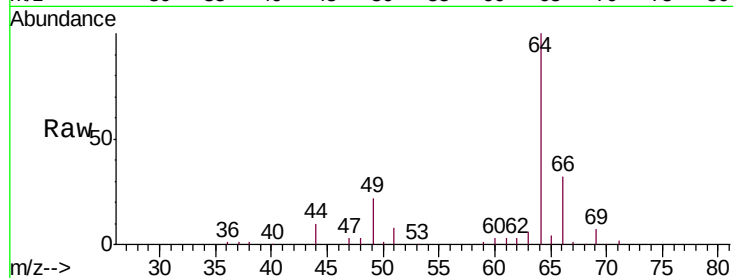
VSTD00543

Tgt Ion: 64 Resp: 36159

Ion Ratio Lower Upper

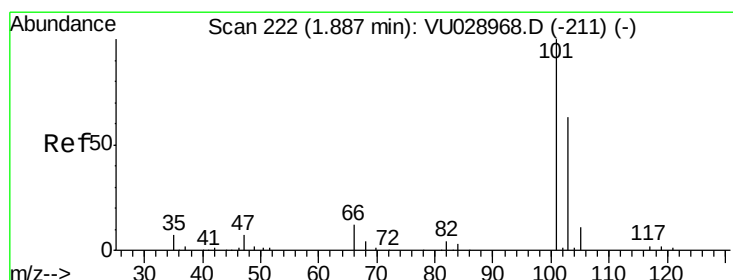
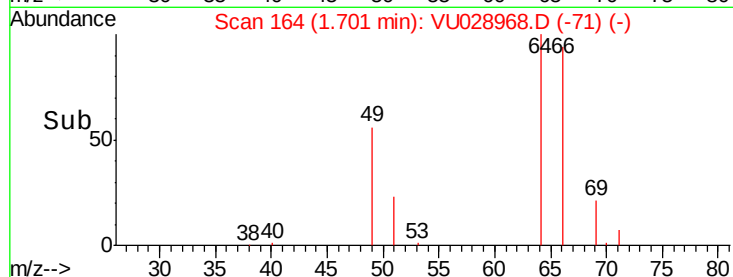
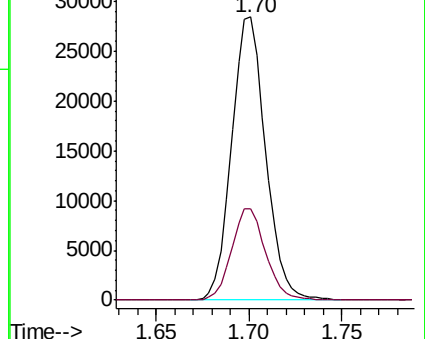
64 100

66 32.3 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VU028968.D (-154) (-)

Ion 66.05 (65.75 to 66.75): VU028968.D (-154) (-)



#9

Trichlorofluoromethane

Concen: 4.632 ug/L

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU028968.D

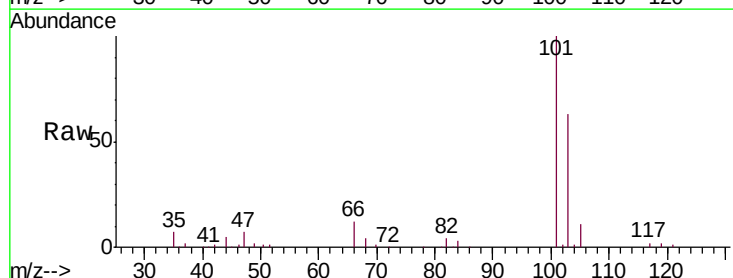
Acq: 27 Dec 2018 16:27

Tgt Ion: 101 Resp: 73799

Ion Ratio Lower Upper

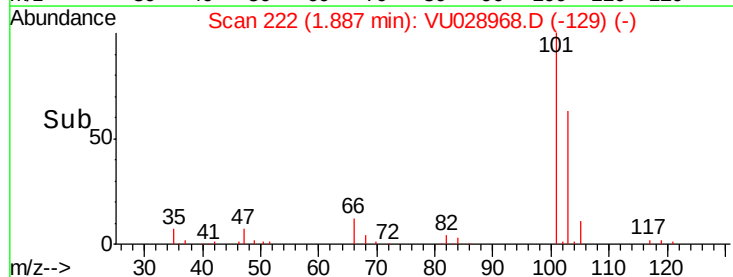
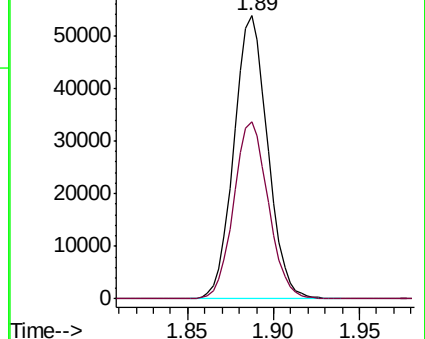
101 100

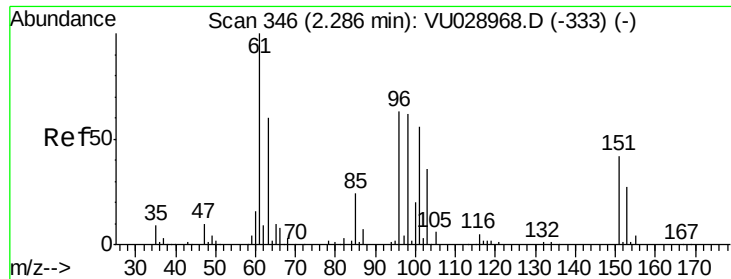
103 64.0 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU028968.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU028968.D (-211) (-)





#10

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

Concen: 4.567 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00543

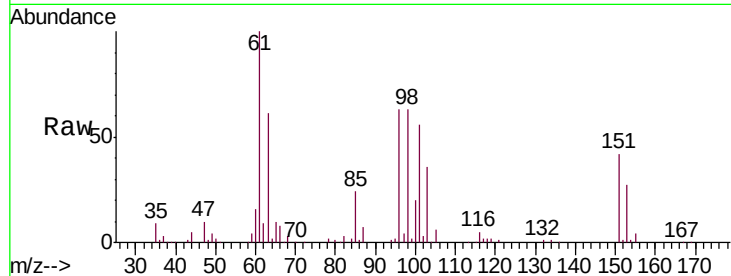
Tgt Ion: 101 Resp: 46962

Ion Ratio Lower Upper

101 100

85 42.2 33.8 50.6

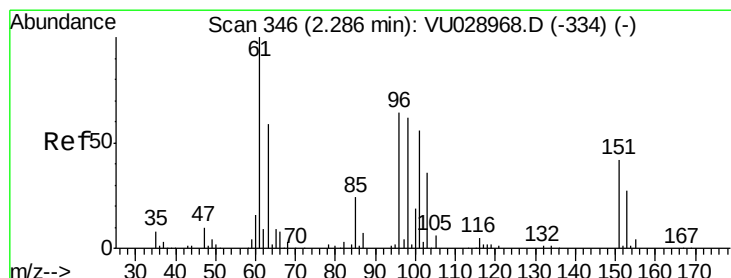
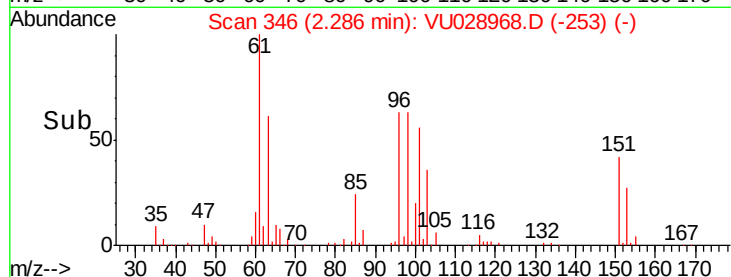
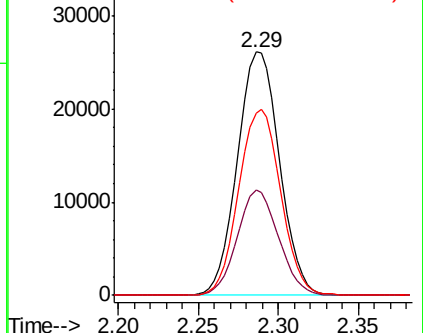
151 76.1 60.9 91.3



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: 4.590 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

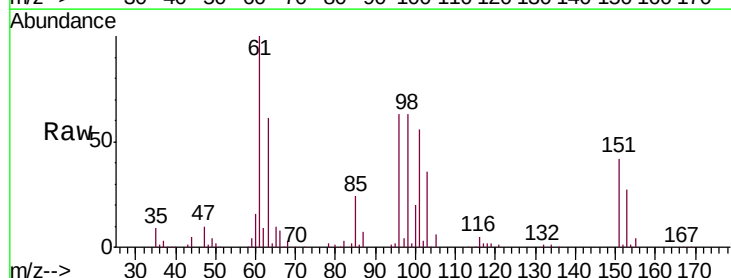
Tgt Ion: 96 Resp: 45892

Ion Ratio Lower Upper

96 100

61 157.9 110.5 205.3

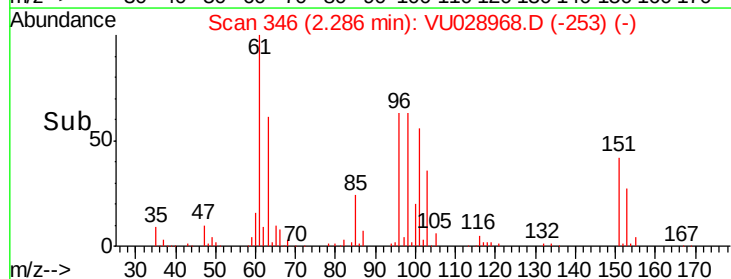
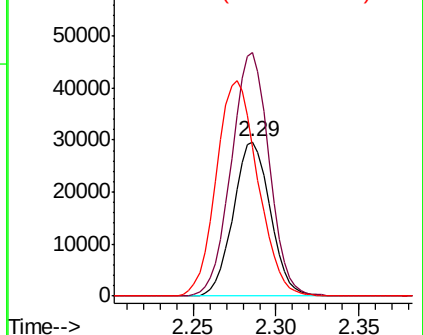
63 96.6 67.6 125.6

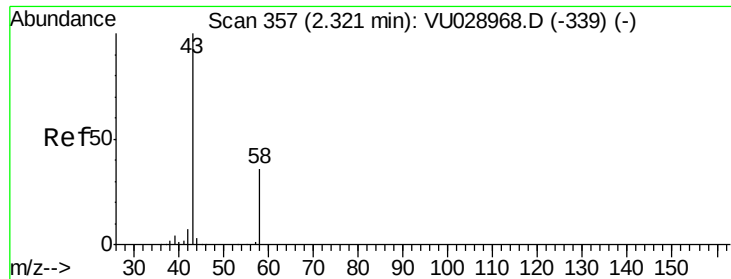


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 45.491 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

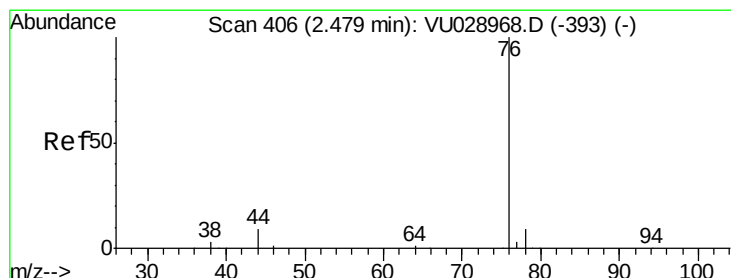
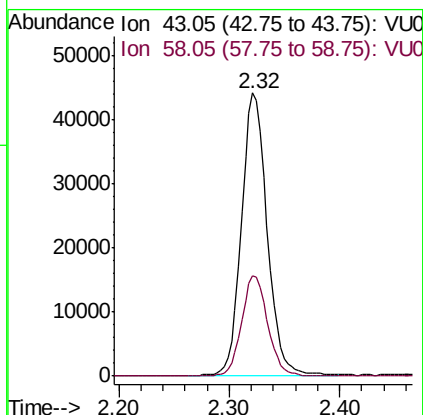
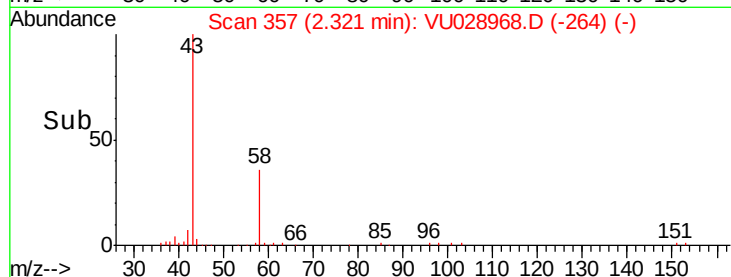
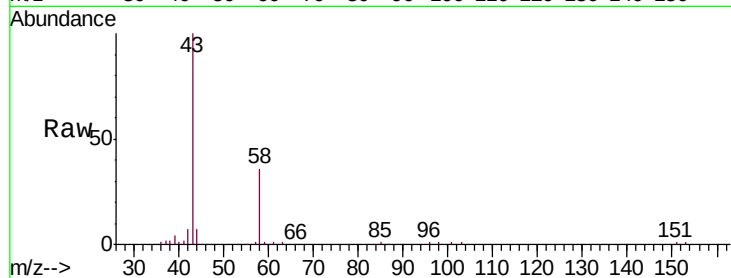
VSTD00543

Tgt Ion: 43 Resp: 71667

Ion Ratio Lower Upper

43 100

58 35.9 0.0 71.8



#14

Carbon disulfide

Concen: 4.588 ug/L

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU028968.D

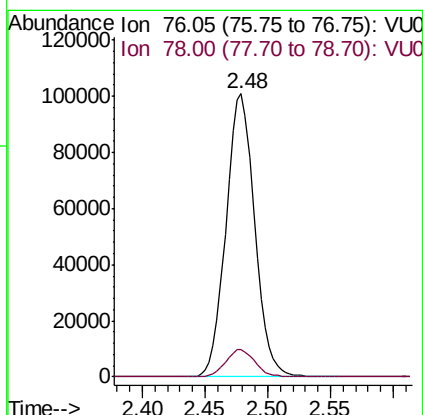
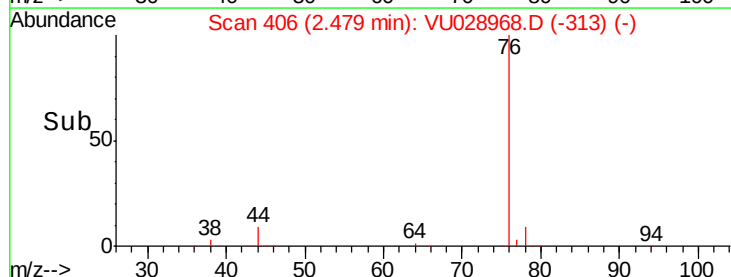
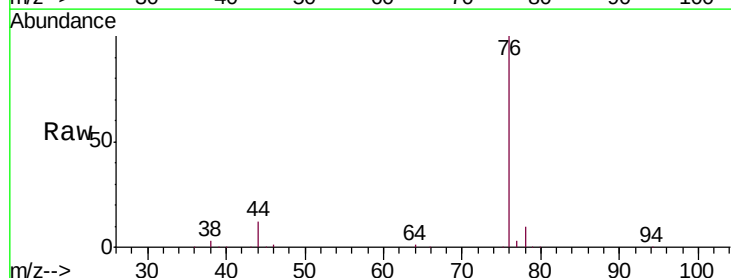
Acq: 27 Dec 2018 16:27

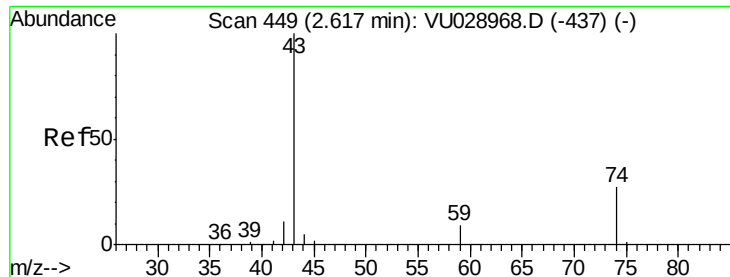
Tgt Ion: 76 Resp: 160278

Ion Ratio Lower Upper

76 100

78 9.6 7.7 11.5

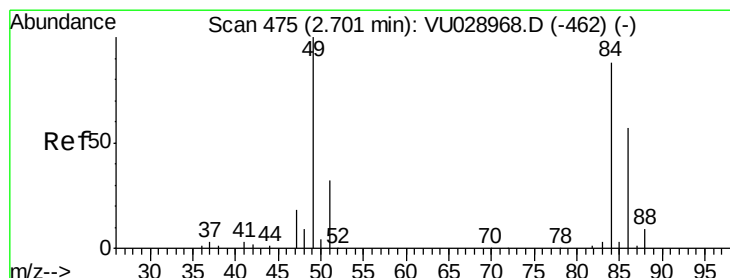
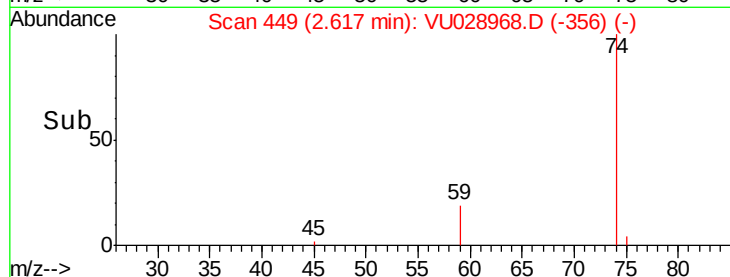
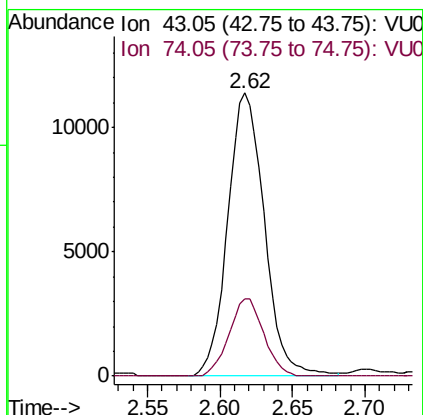
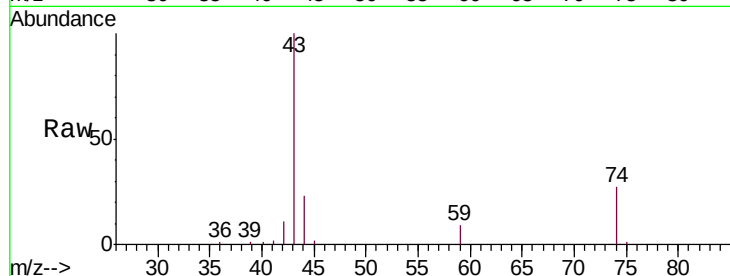




#15
Methyl Acetate
Concen: 4.332 ug/L
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU028968.D
Acq: 27 Dec 2018 16:27

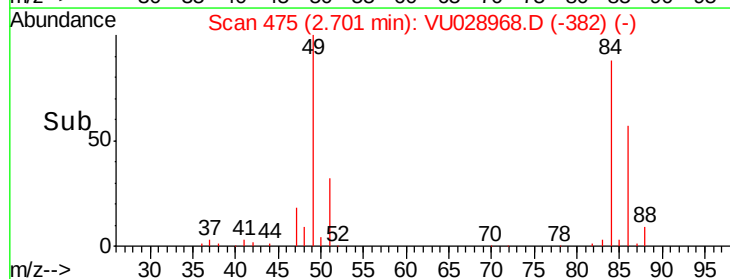
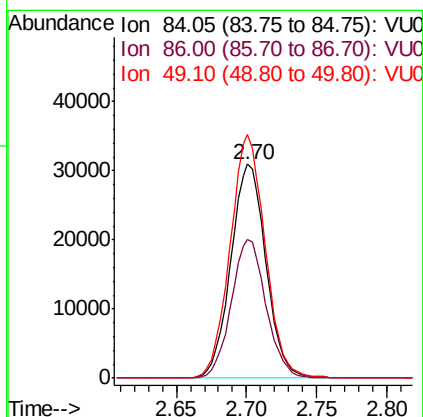
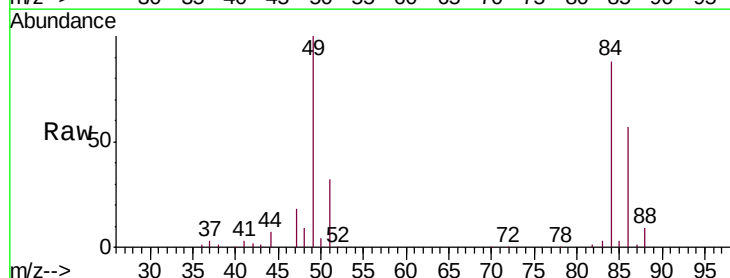
Instrument :
MSVOA_U
ClientSampleId :
VSTD00543

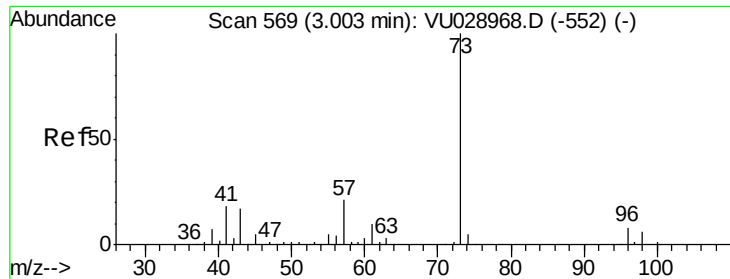
Tgt Ion: 43 Resp: 19995
Ion Ratio Lower Upper
43 100
74 25.7 20.6 30.8



#16
Methylene chloride
Concen: 3.771 ug/L
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028968.D
Acq: 27 Dec 2018 16:27

Tgt Ion: 84 Resp: 53971
Ion Ratio Lower Upper
84 100
86 65.1 45.6 84.6
49 113.9 79.7 148.1





#17

Methyl tert-butyl Ether

Concen: 4.670 ug/L

RT: 3.00 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00543

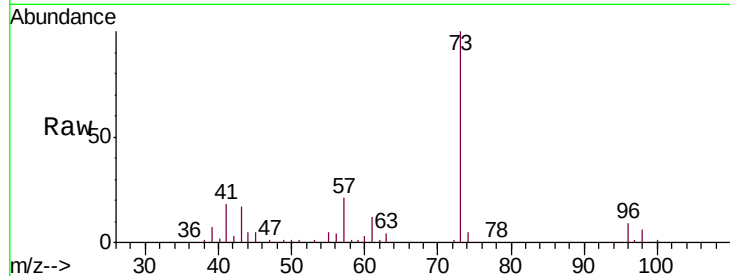
Tgt Ion: 73 Resp: 114628

Ion Ratio Lower Upper

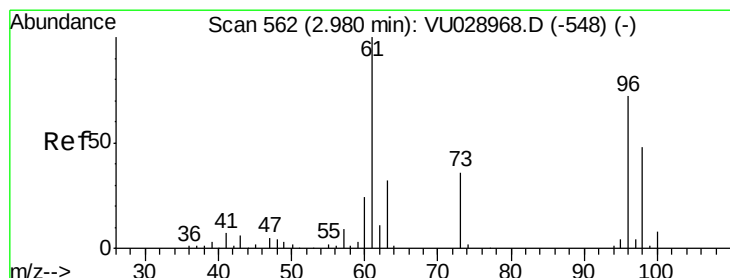
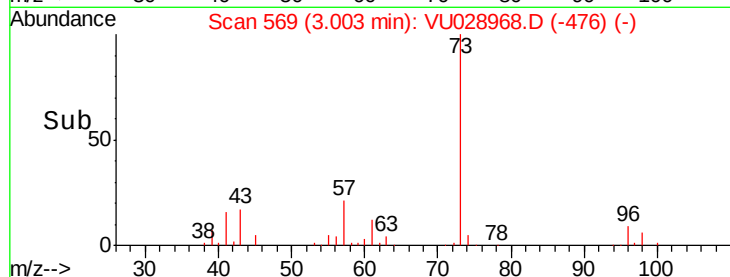
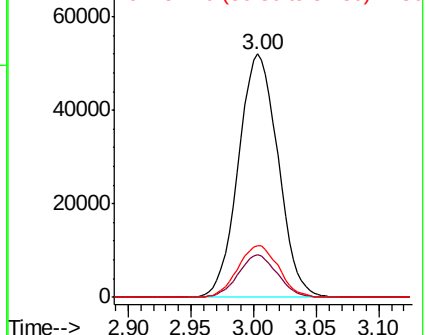
73 100

43 17.3 13.8 20.8

57 21.9 17.5 26.3



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



#18

trans-1,2-Dichloroethene

Concen: 4.604 ug/L

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

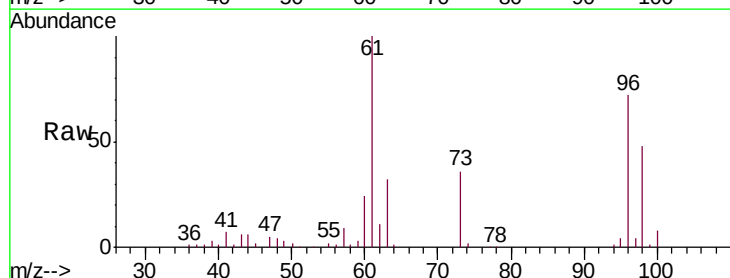
Tgt Ion: 96 Resp: 50529

Ion Ratio Lower Upper

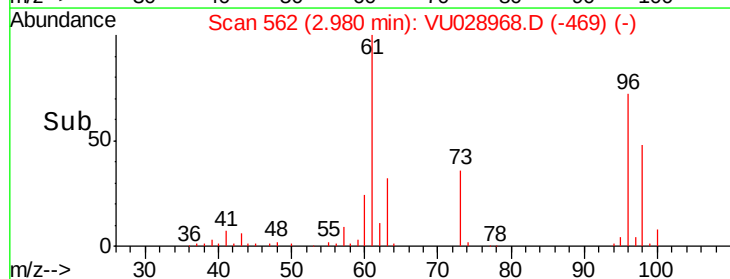
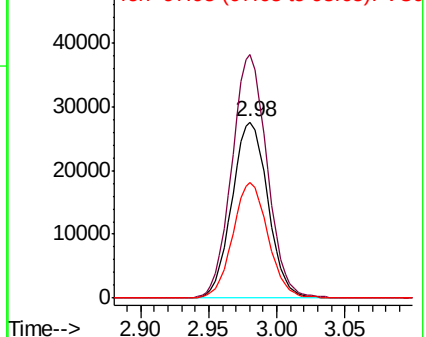
96 100

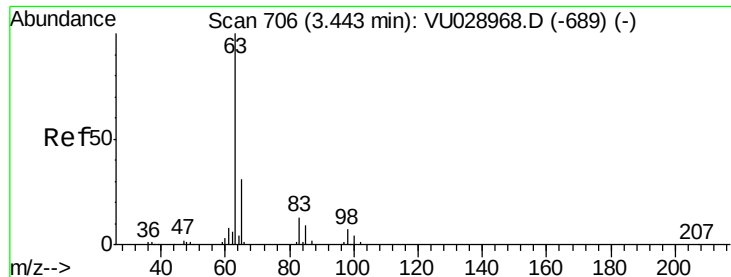
61 138.0 96.6 179.4

98 65.7 46.0 85.4



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

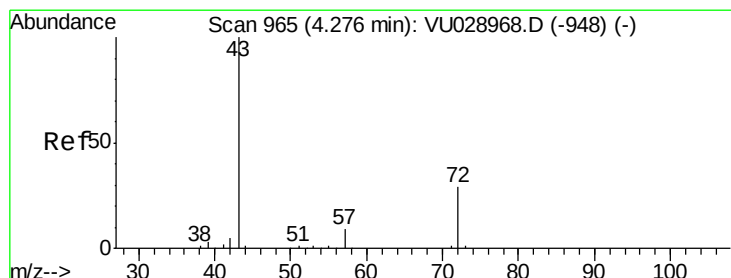
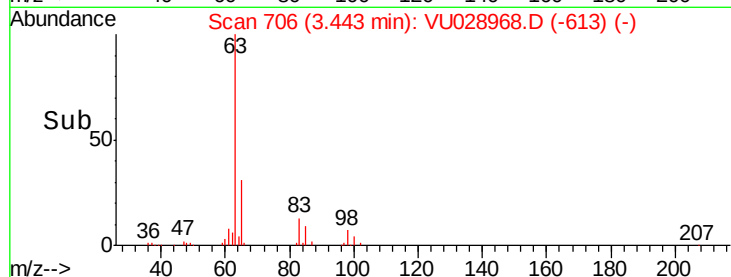
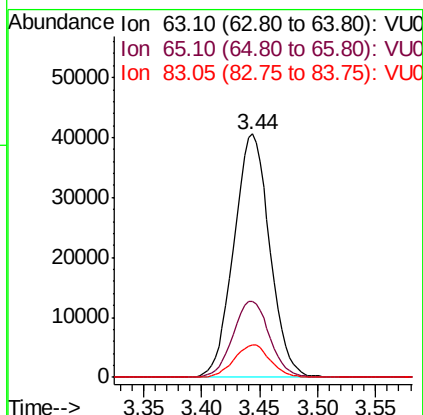
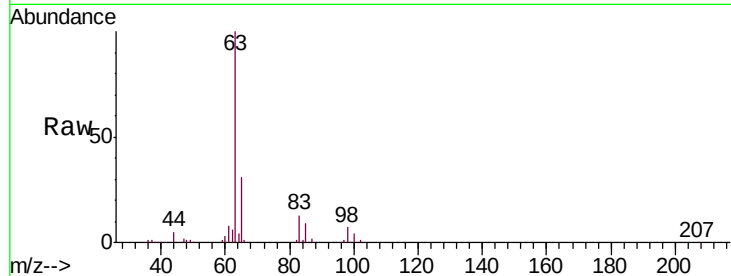




#19
 1,1-Dichloroethane
 Concen: 4.677 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

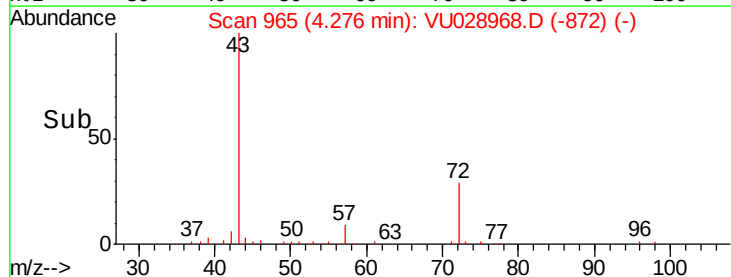
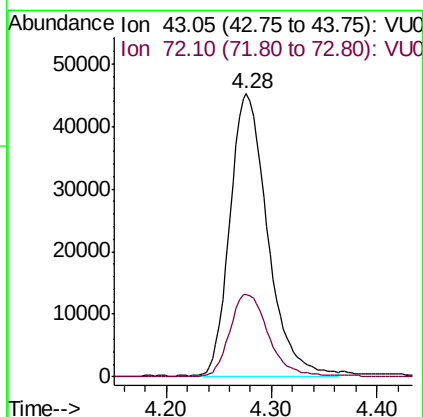
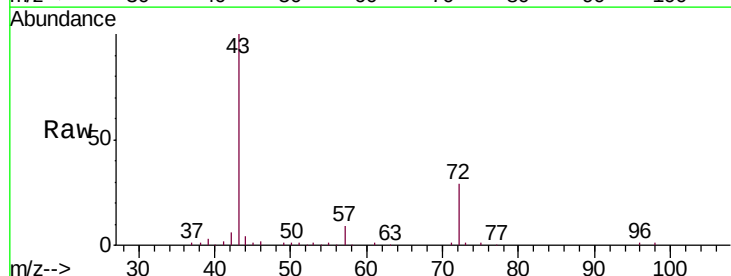
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00543

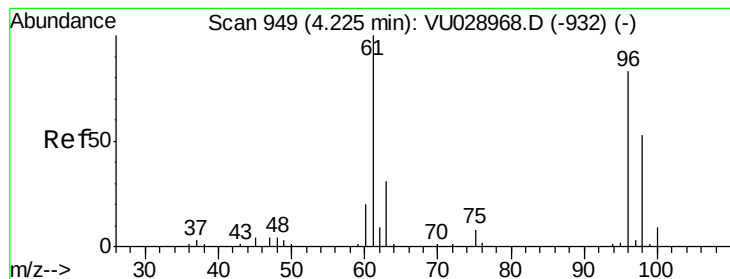
Tgt Ion: 63 Resp: 87152
 Ion Ratio Lower Upper
 63 100
 65 31.2 21.8 40.6
 83 13.3 9.3 17.3



#21
 2-Butanone
 Concen: 47.196 ug/L
 RT: 4.28 min Scan# 965
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Tgt Ion: 43 Resp: 111240
 Ion Ratio Lower Upper
 43 100
 72 30.3 15.2 45.5



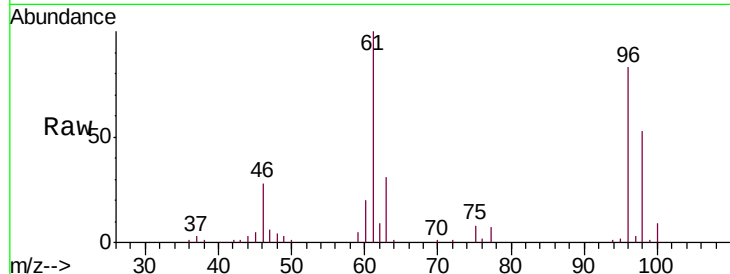


#22

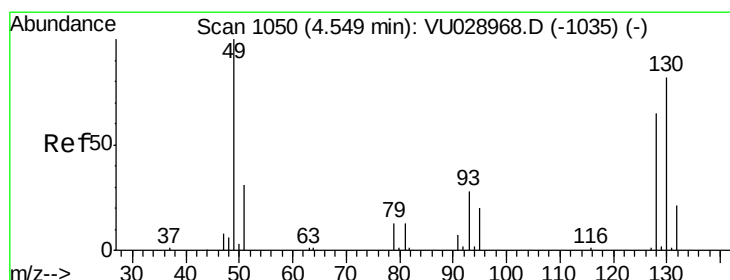
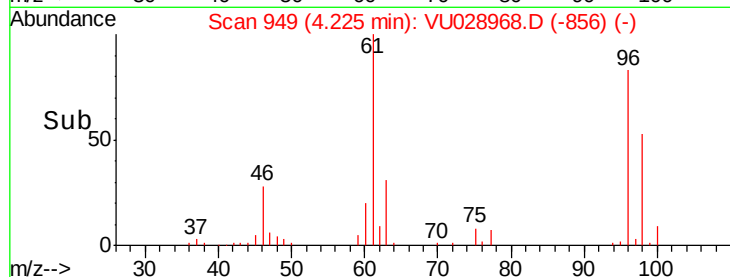
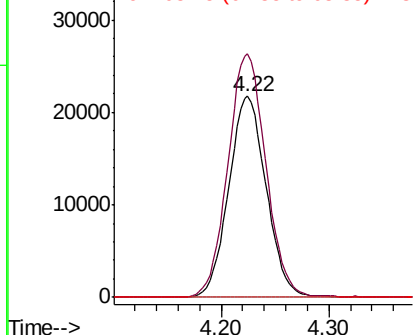
cis-1,2-Dichloroethene
 Concen: 4.636 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00543

Tgt Ion: 96 Resp: 52639
 Ion Ratio Lower Upper
 96 100
 61 121.0 84.7 157.3
 68 0.0 0.0 0.0



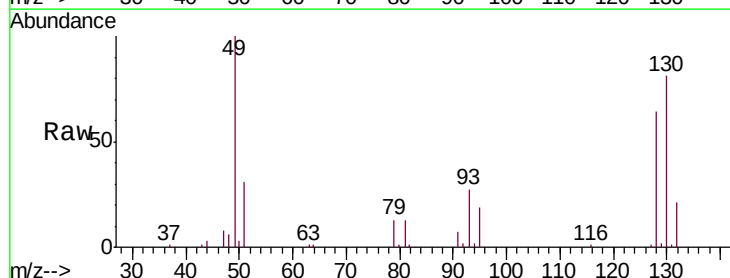
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



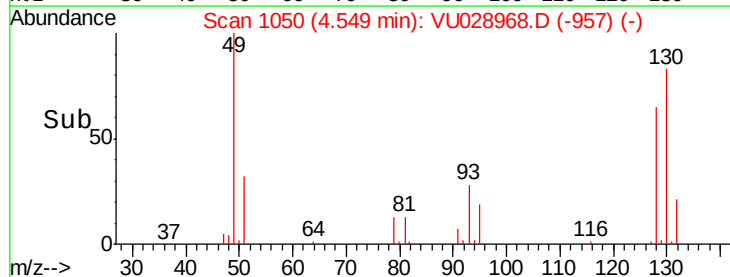
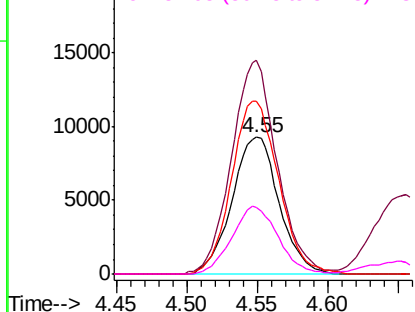
#23

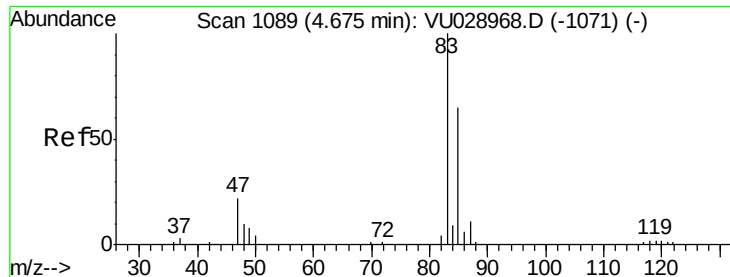
Bromochloromethane
 Concen: 4.693 ug/L
 RT: 4.55 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Tgt Ion: 128 Resp: 21623
 Ion Ratio Lower Upper
 128 100
 49 156.1 109.3 202.9
 130 126.7 88.7 164.7
 51 48.5 38.8 58.2



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

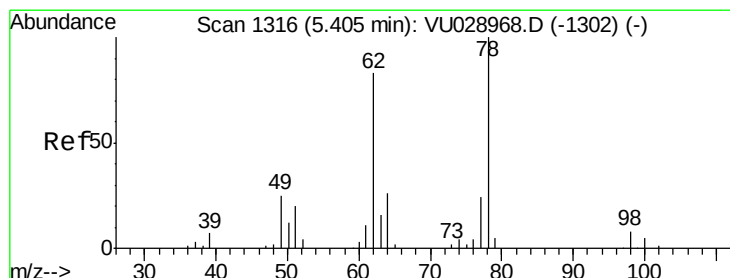
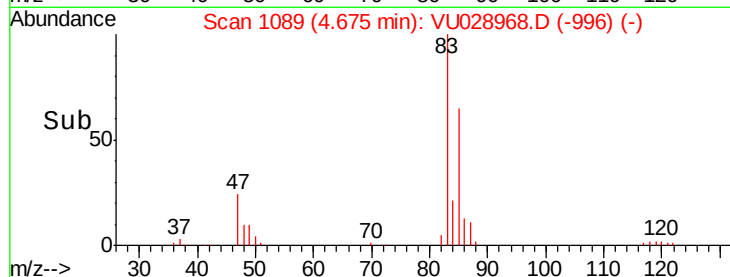
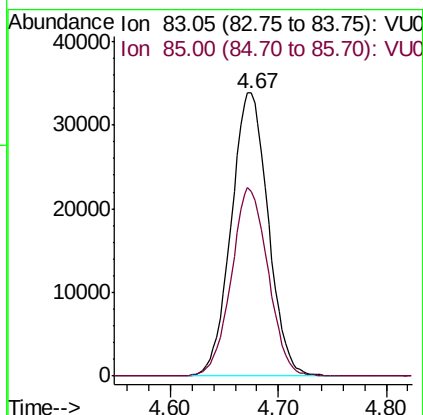
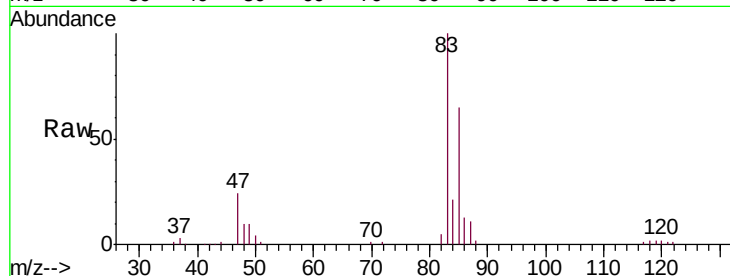




#25
Chloroform
Concen: 4.562 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU028968.D
Acq: 27 Dec 2018 16:27

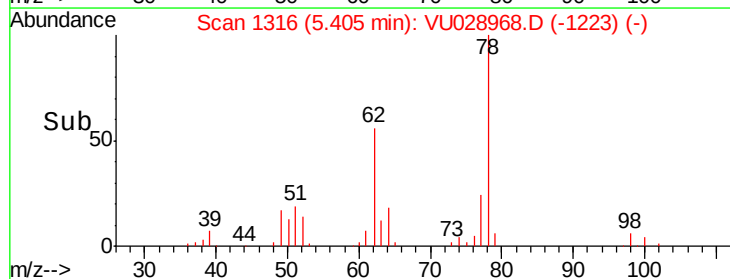
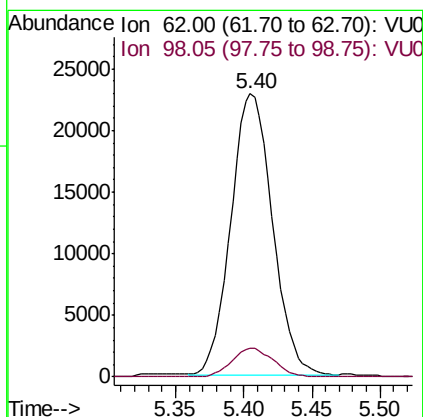
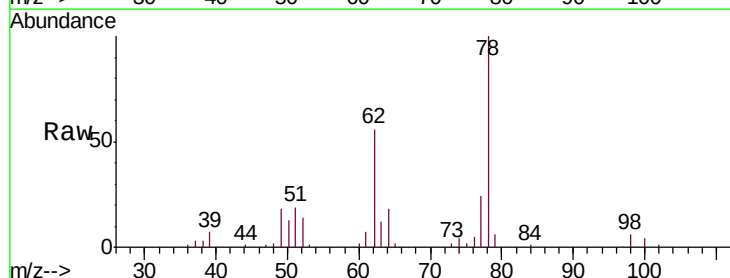
Instrument :
MSVOA_U
ClientSampleId :
VSTD00543

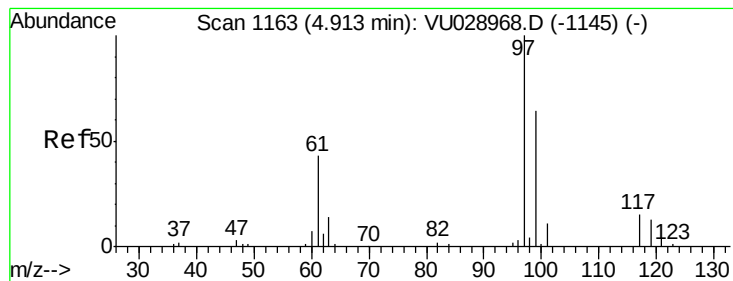
Tgt Ion: 83 Resp: 80765
Ion Ratio Lower Upper
83 100
85 65.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 4.597 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU028968.D
Acq: 27 Dec 2018 16:27

Tgt Ion: 62 Resp: 48148
Ion Ratio Lower Upper
62 100
98 10.2 8.2 12.2





#29

1,1,1-Trichloroethane

Concen: 4.752 ug/L

RT: 4.91 min Scan# 1163

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00543

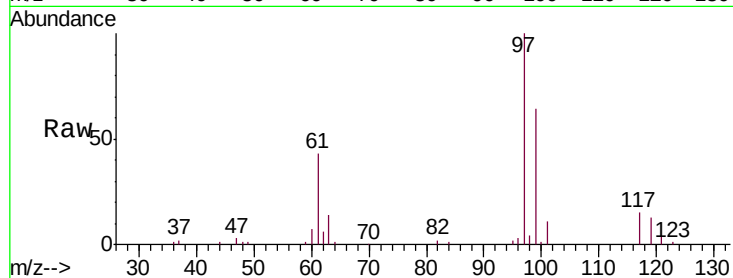
Tgt Ion: 97 Resp: 67293

Ion Ratio Lower Upper

97 100

99 64.5 51.6 77.4

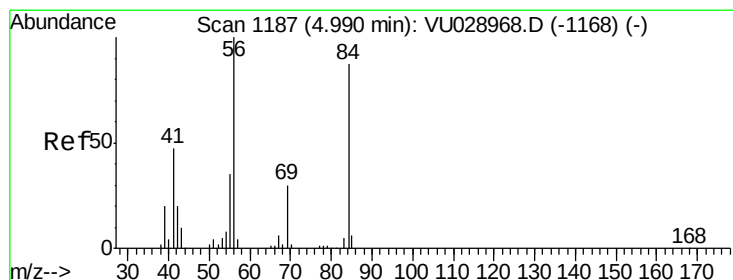
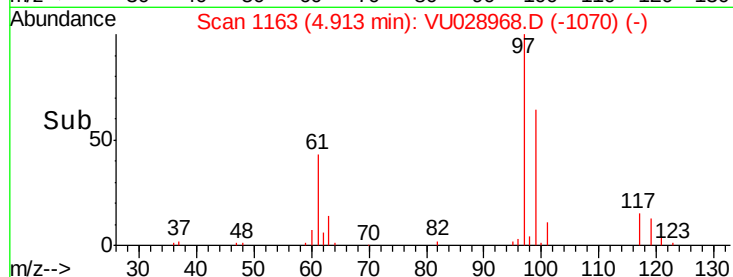
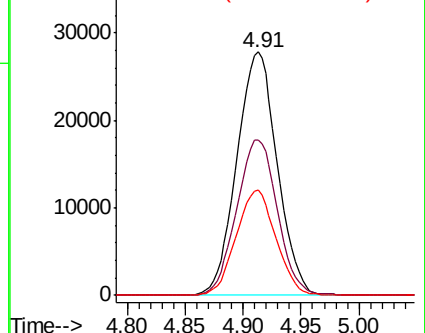
61 42.6 34.1 51.1



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 4.703 ug/L

RT: 4.99 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

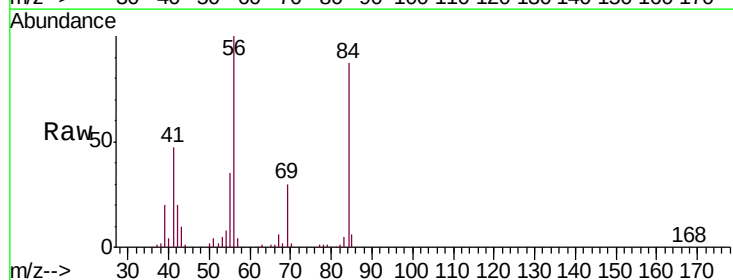
Tgt Ion: 56 Resp: 79795

Ion Ratio Lower Upper

56 100

69 31.0 24.8 37.2

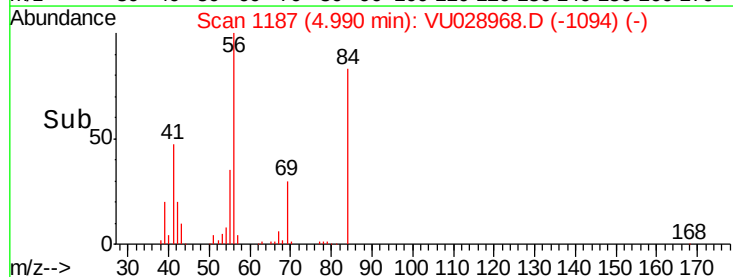
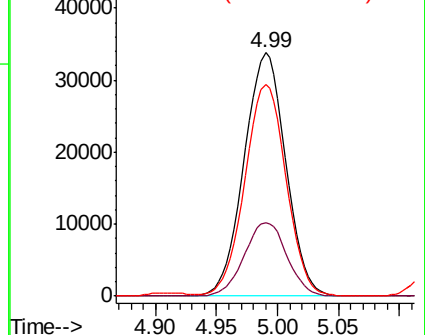
84 86.4 69.1 103.7

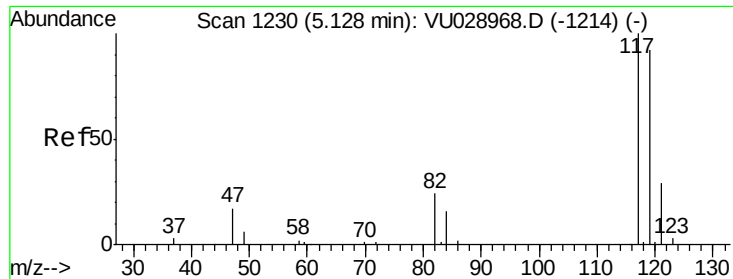


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.743 ug/L

RT: 5.13 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

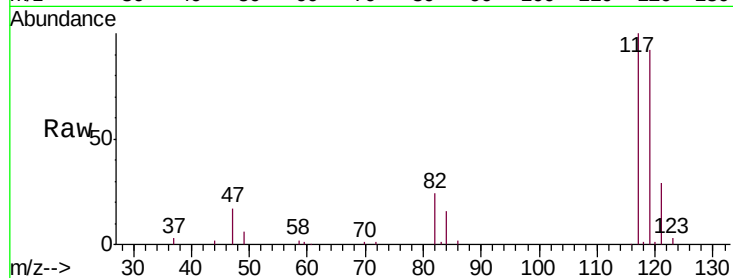
VSTD00543

Tgt Ion:117 Resp: 53486

Ion Ratio Lower Upper

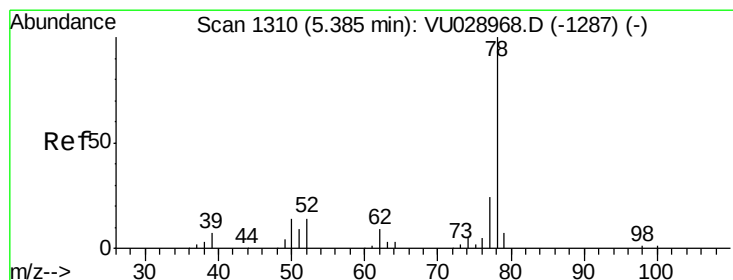
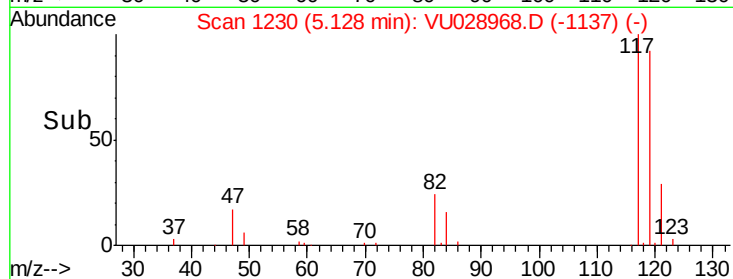
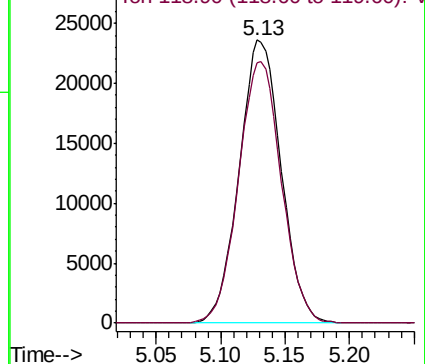
117 100

119 94.3 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.741 ug/L

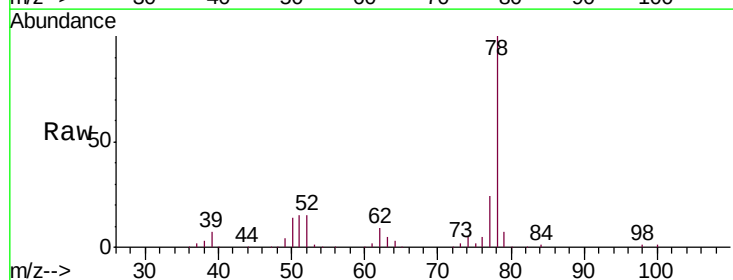
RT: 5.39 min Scan# 1310

Delta R.T. 0.00 min

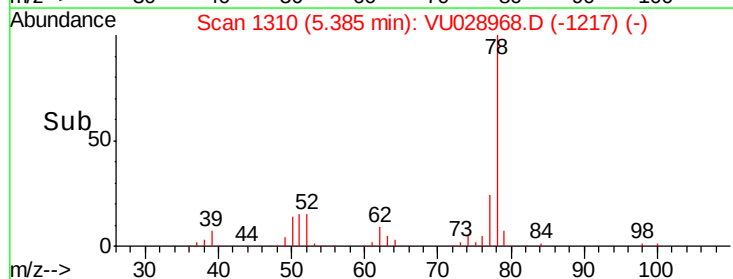
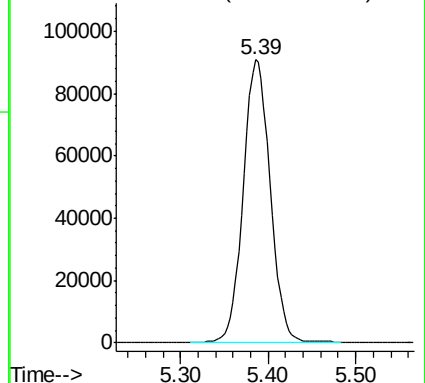
Lab File: VU028968.D

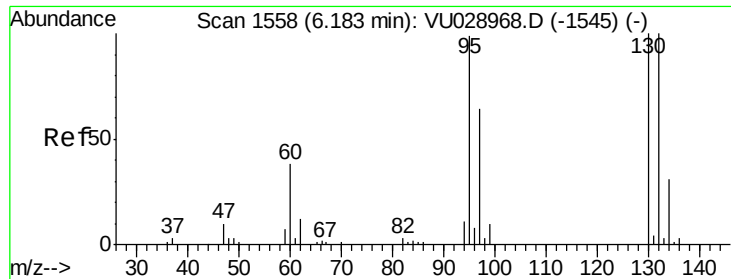
Acq: 27 Dec 2018 16:27

Tgt Ion: 78 Resp: 195471



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.719 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00543

Tgt Ion: 95 Resp: 49744

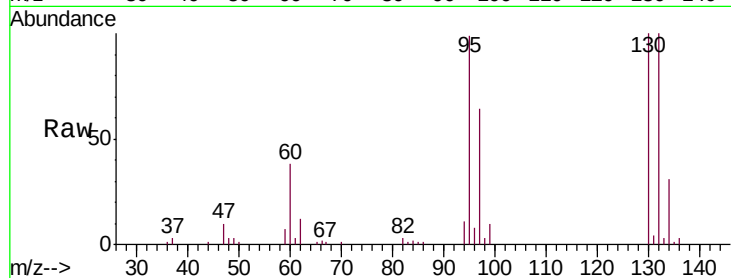
Ion Ratio Lower Upper

95 100

97 64.8 45.4 84.2

132 101.2 70.8 131.6

130 101.0 70.7 131.3

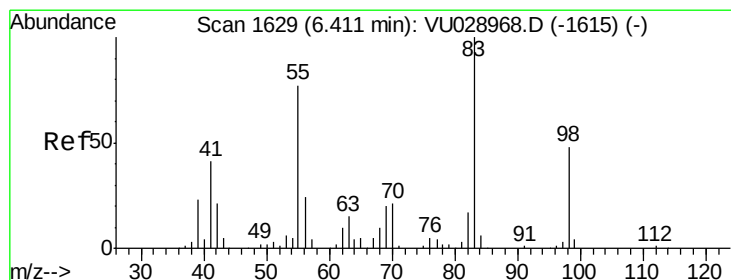
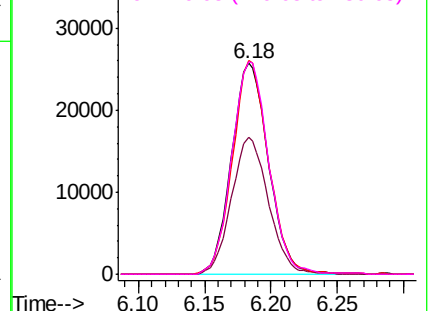
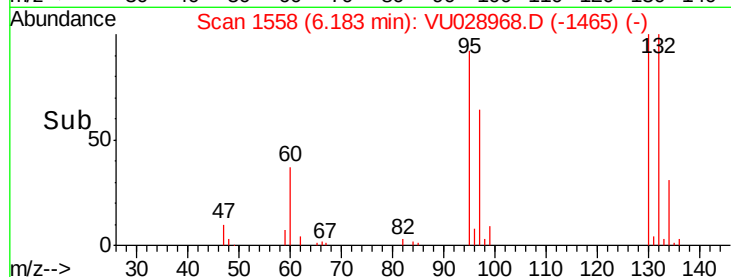


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.616 ug/L

RT: 6.41 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

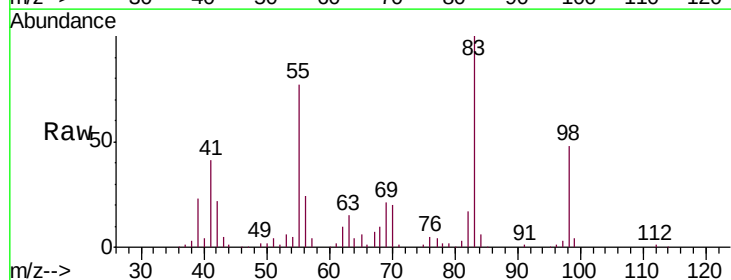
Tgt Ion: 83 Resp: 83583

Ion Ratio Lower Upper

83 100

55 74.7 59.8 89.6

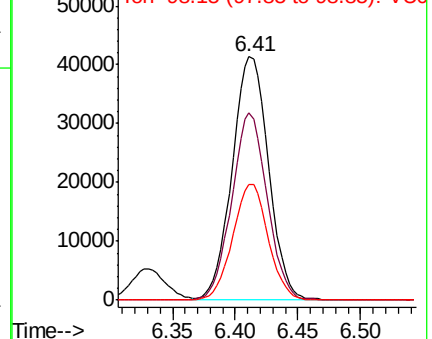
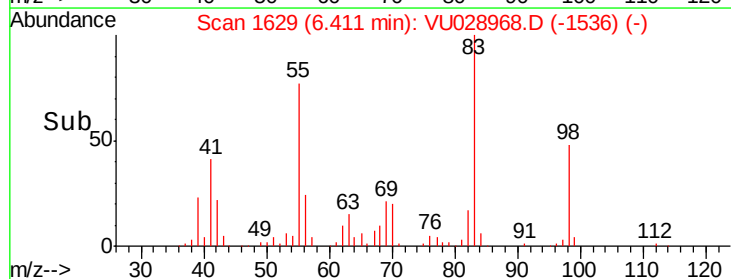
98 46.3 37.0 55.6

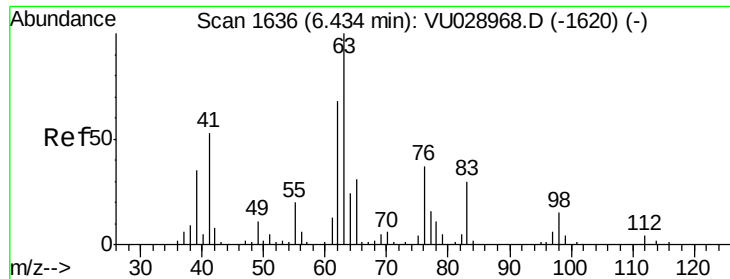


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

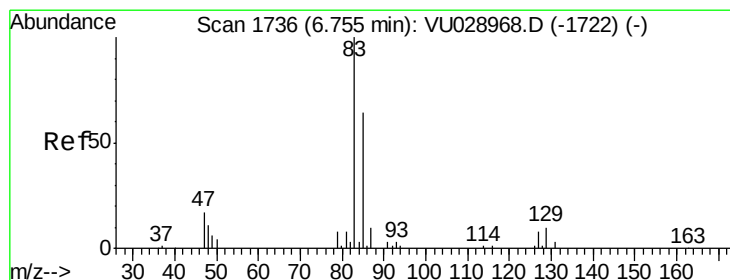
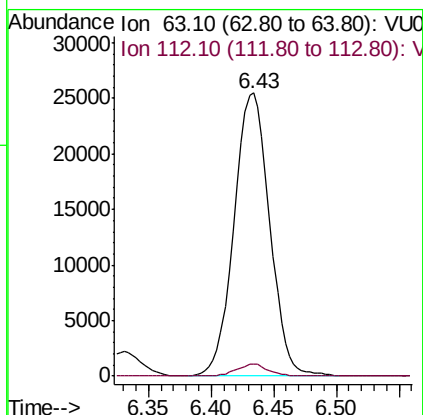
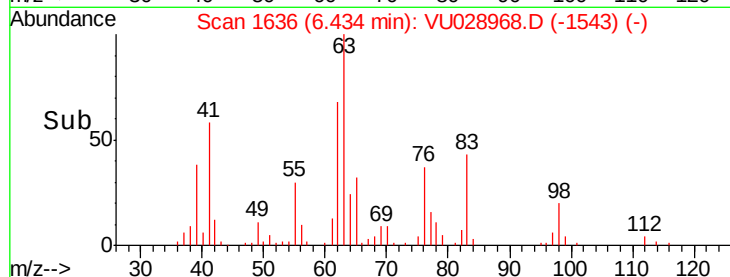
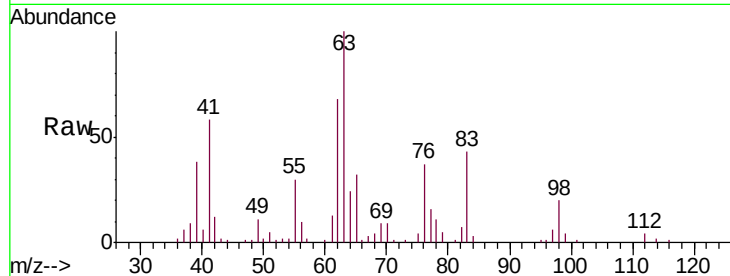




#37
 1,2-Dichloropropane
 Concen: 4.786 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

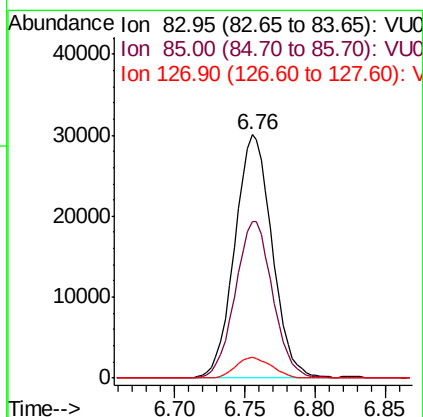
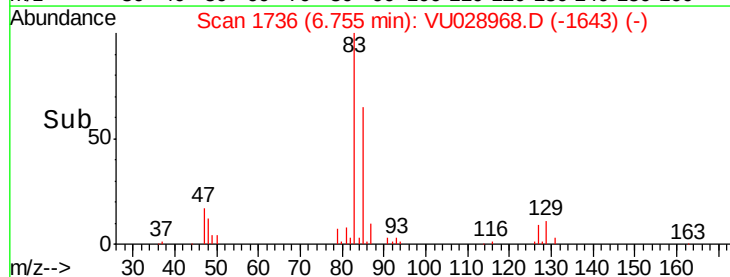
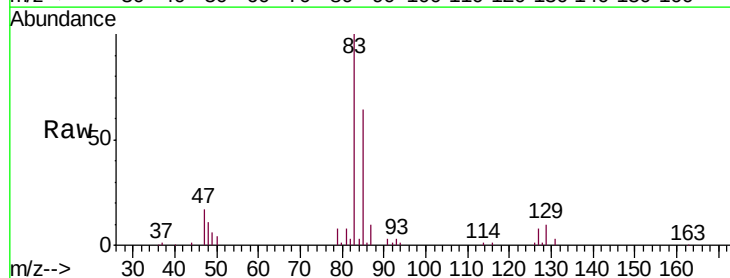
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00543

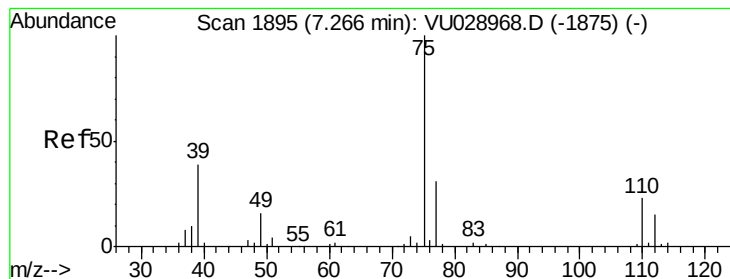
Tgt Ion: 63 Resp: 50275
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#38
 Bromodichloromethane
 Concen: 4.708 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Tgt Ion: 83 Resp: 55681
 Ion Ratio Lower Upper
 83 100
 85 64.5 45.1 83.9
 127 8.5 6.8 10.2



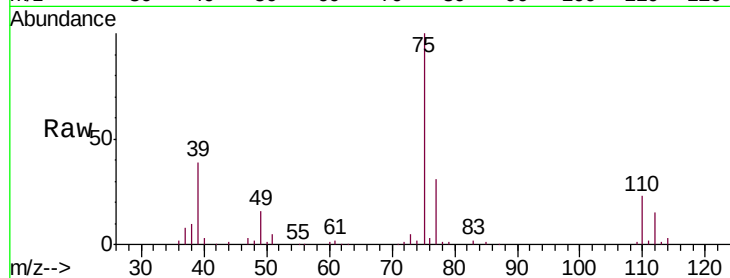


#39

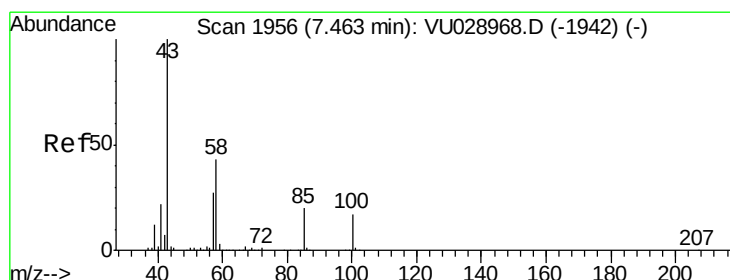
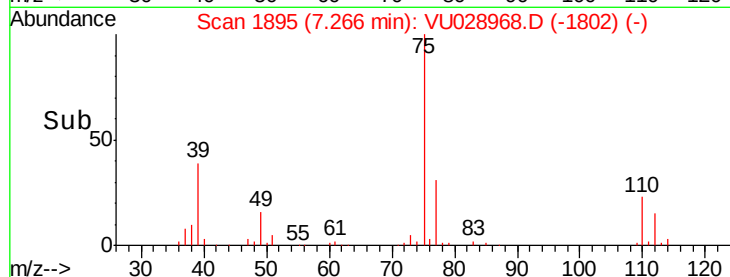
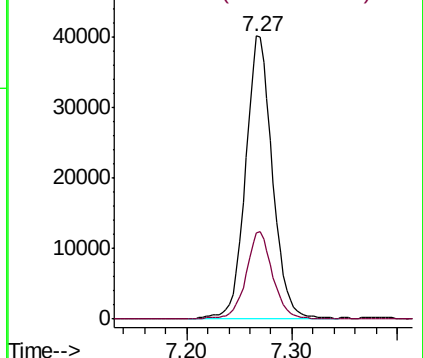
cis-1,3-Dichloropropene
 Concen: 4.733 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00543

Tgt Ion: 75 Resp: 71278
 Ion Ratio Lower Upper
 75 100
 77 30.7 21.5 39.9



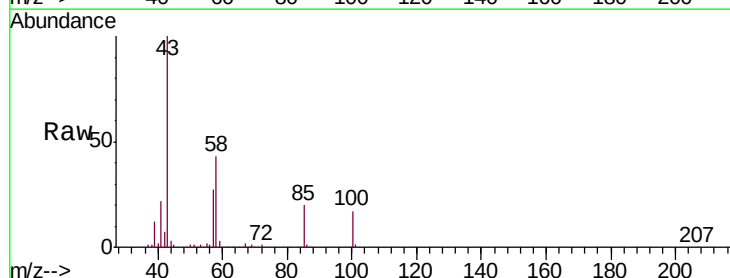
Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 77.05 (76.75 to 77.75): VU0



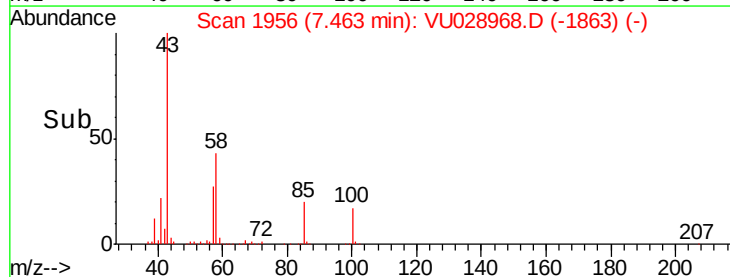
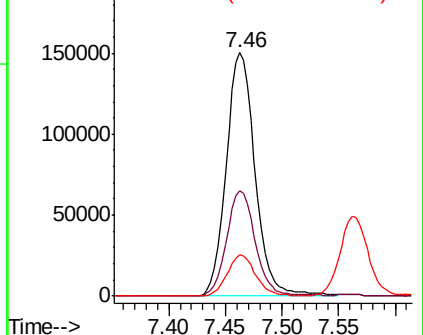
#40

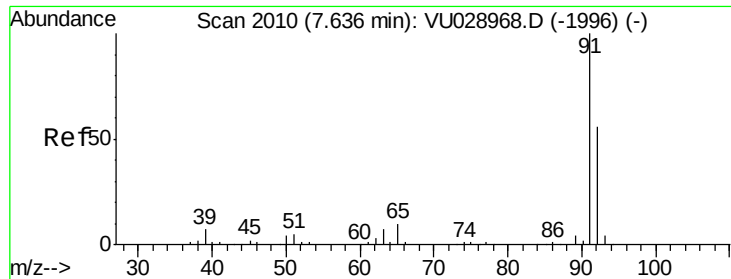
4-Methyl-2-pentanone
 Concen: 47.874 ug/L
 RT: 7.46 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Tgt Ion: 43 Resp: 267577
 Ion Ratio Lower Upper
 43 100
 58 43.2 34.6 51.8
 100 16.7 13.4 20.0



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





#42

Toluene

Concen: 4.681 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

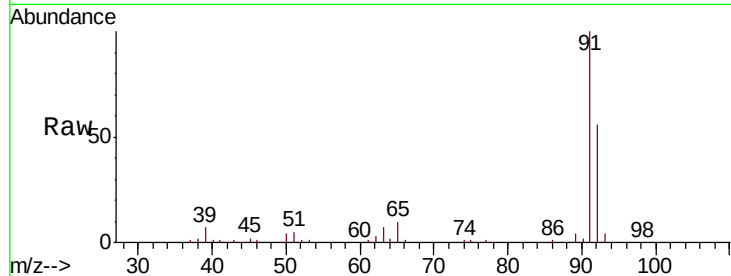
VSTD00543

Tgt Ion: 91 Resp: 206582

Ion Ratio Lower Upper

91 100

92 56.2 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU028968.D (-1996) (-)

Ion 92.15 (91.85 to 92.85): VU028968.D (-1996) (-)

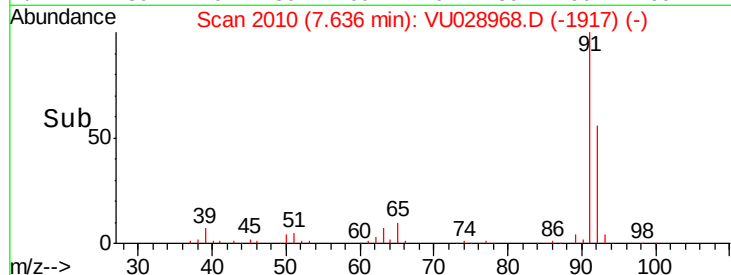
7.64

100000

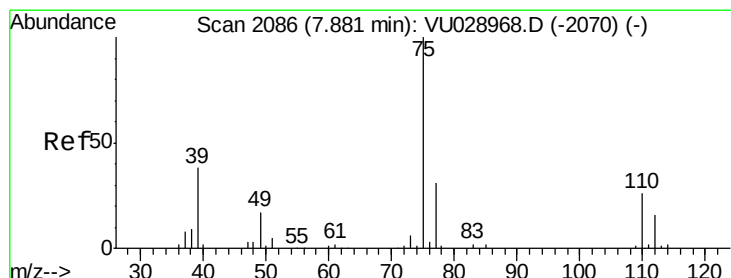
50000

0

Time-->



Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.806 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU028968.D

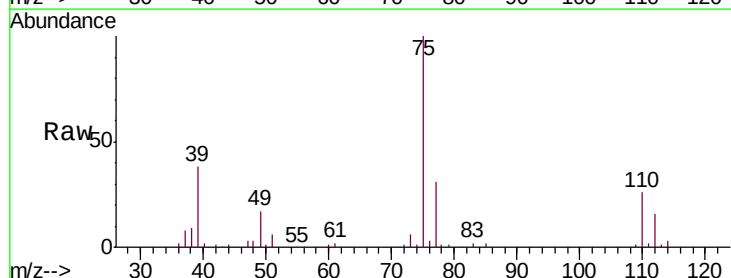
Acq: 27 Dec 2018 16:27

Tgt Ion: 75 Resp: 56412

Ion Ratio Lower Upper

75 100

77 30.8 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU028968.D (-2070) (-)

Ion 77.05 (76.75 to 77.75): VU028968.D (-2070) (-)

7.88

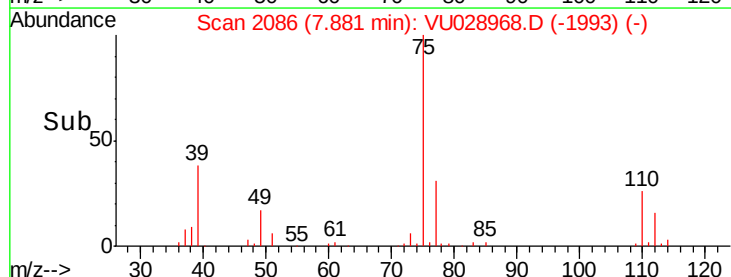
30000

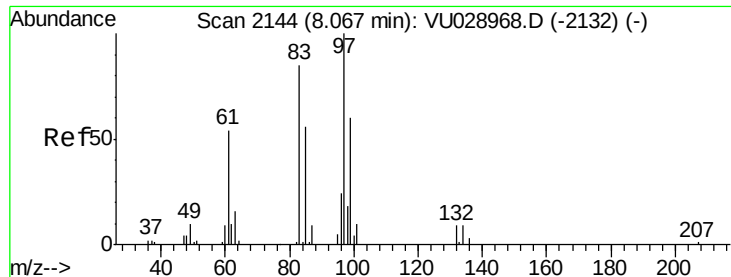
20000

10000

0

Time-->

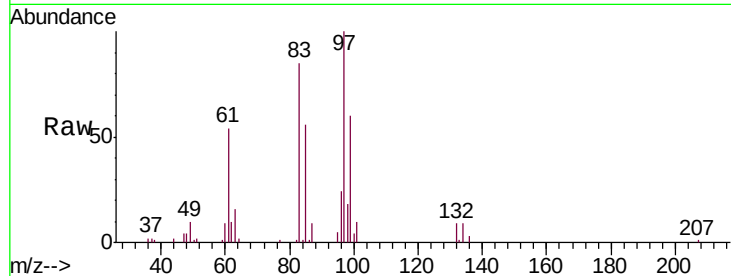




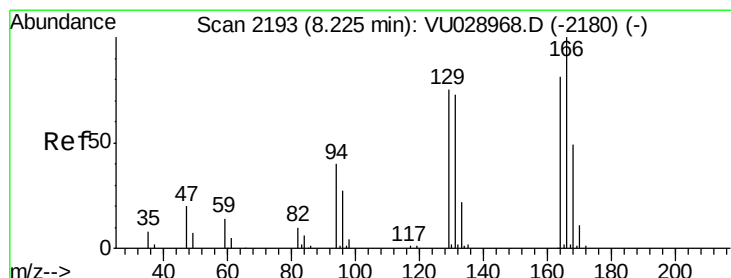
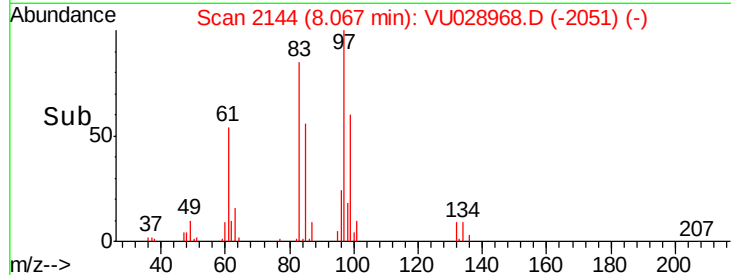
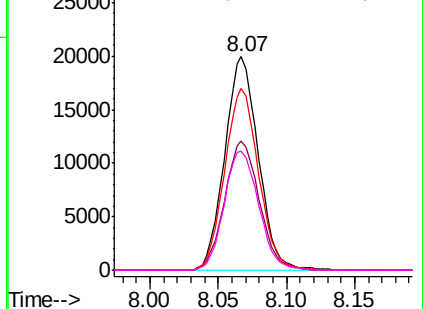
#45
 1,1,2-Trichloroethane
 Concen: 4.776 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00543

Tgt Ion: 97 Resp: 34140
 Ion Ratio Lower Upper
 97 100
 99 60.5 42.4 78.6
 83 85.1 59.6 110.6
 85 55.7 39.0 72.4

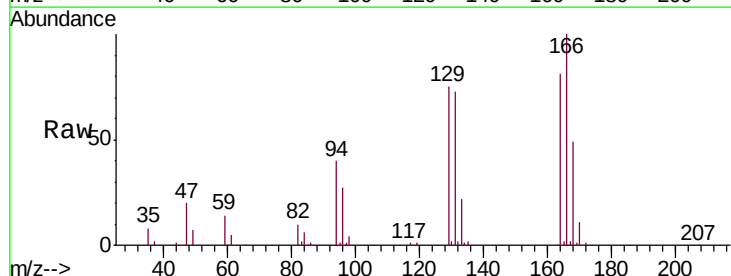


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

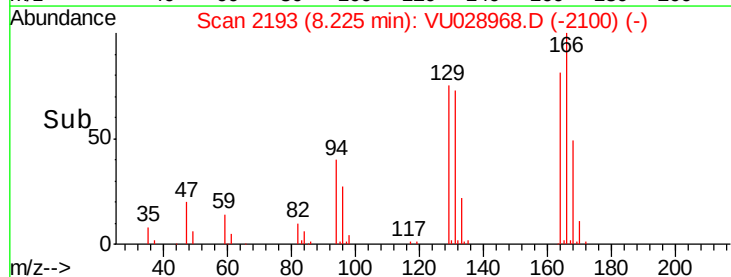
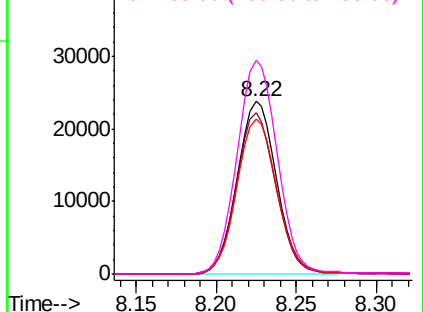


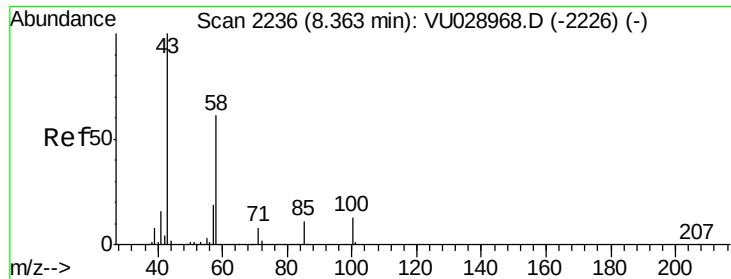
#47
 Tetrachloroethene
 Concen: 4.580 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Tgt Ion: 164 Resp: 39986
 Ion Ratio Lower Upper
 164 100
 129 93.3 65.3 121.3
 131 89.8 62.9 116.7
 166 123.8 86.7 160.9



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

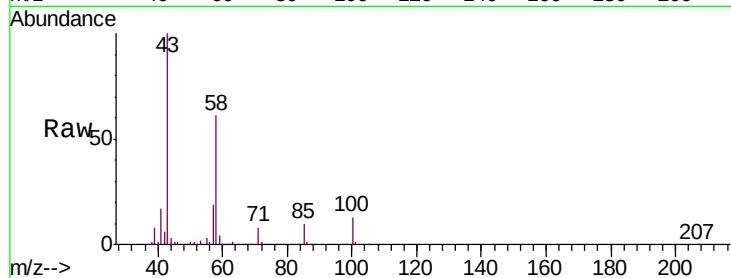




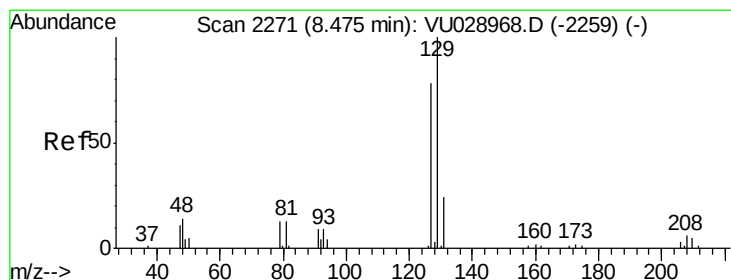
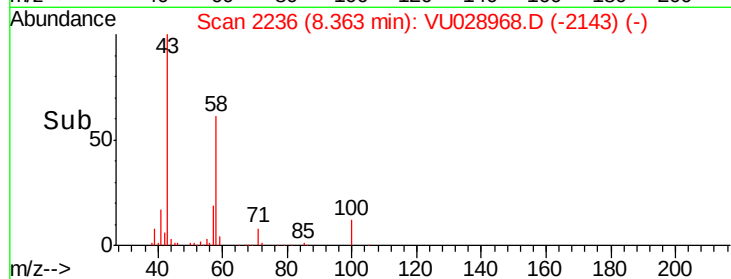
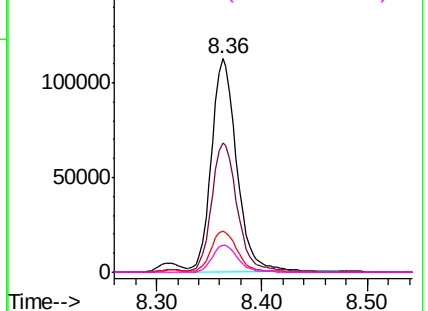
#48
2-Hexanone
Concen: 48.789 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028968.D
Acq: 27 Dec 2018 16:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD00543

Tgt Ion: 43 Resp: 188628
Ion Ratio Lower Upper
43 100
58 61.0 48.8 73.2
57 20.0 16.0 24.0
100 12.8 10.2 15.4

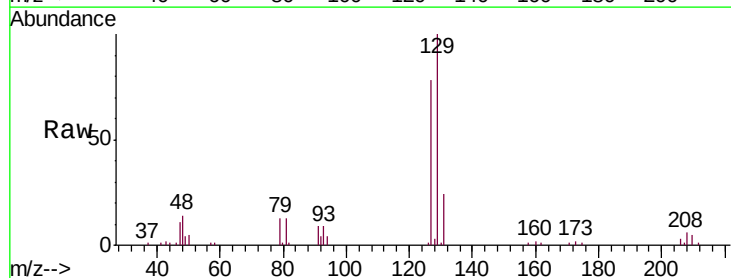


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

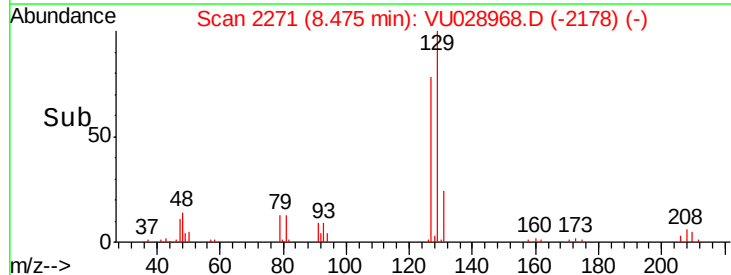
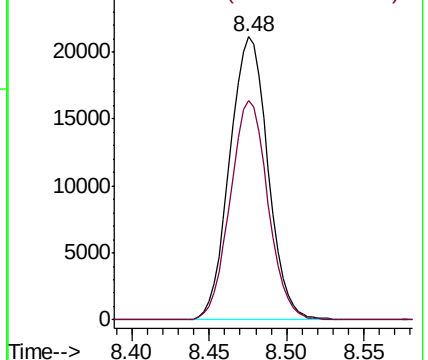


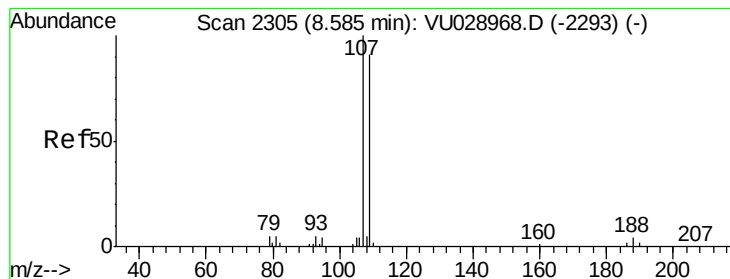
#49
Dibromochloromethane
Concen: 4.778 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028968.D
Acq: 27 Dec 2018 16:27

Tgt Ion: 129 Resp: 36264
Ion Ratio Lower Upper
129 100
127 77.7 54.4 101.0



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





#50

1,2-Dibromoethane

Concen: 4.835 ug/L

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00543

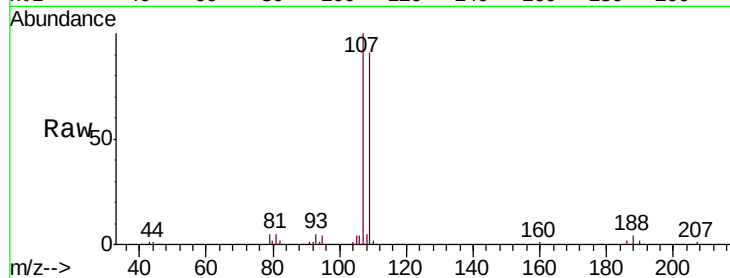
Tgt Ion:107 Resp: 32332

Ion Ratio Lower Upper

107 100

109 91.5 64.0 119.0

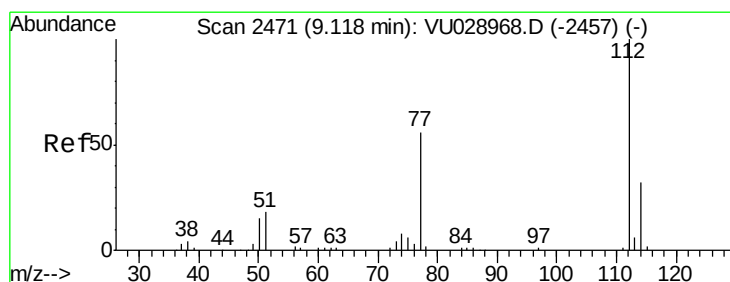
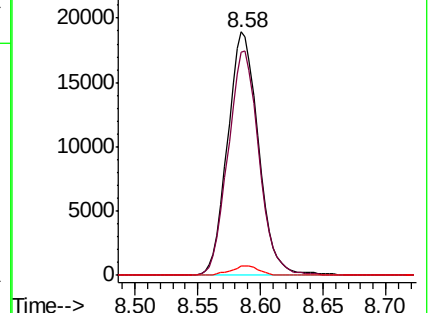
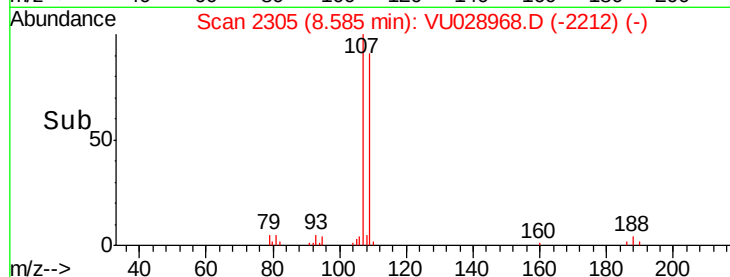
188 3.7 3.0 4.4



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.732 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

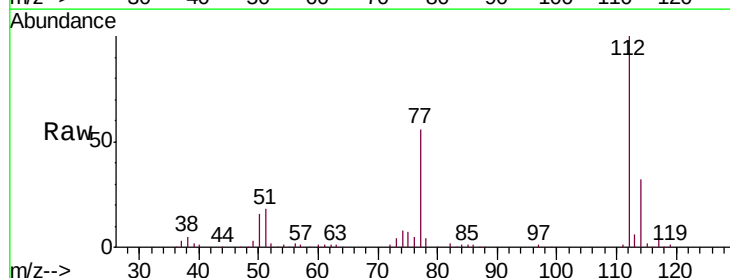
Tgt Ion:112 Resp: 130986

Ion Ratio Lower Upper

112 100

114 31.7 22.2 41.2

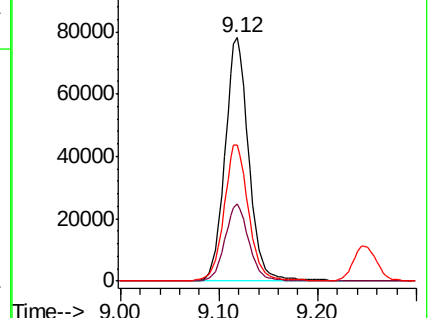
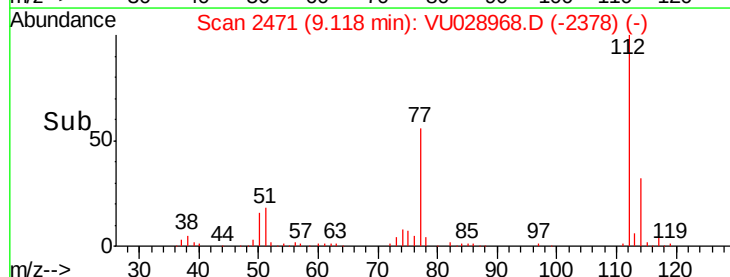
77 56.1 44.9 67.3

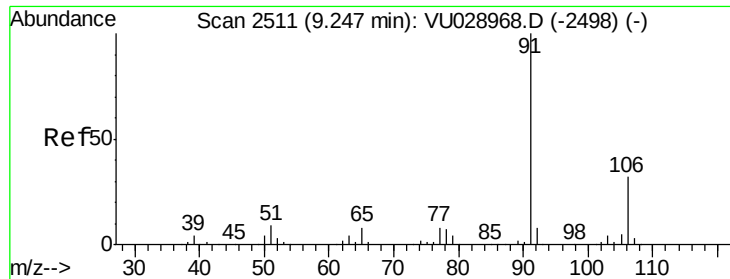


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 4.677 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

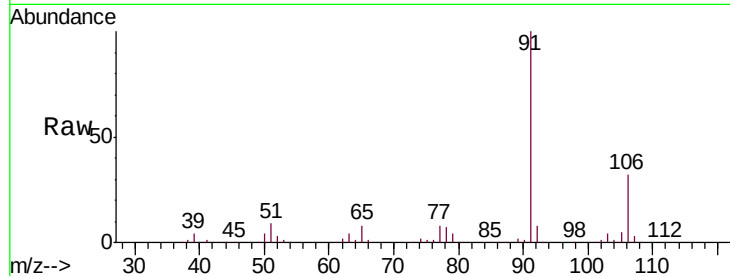
VSTD00543

Tgt Ion: 91 Resp: 218967

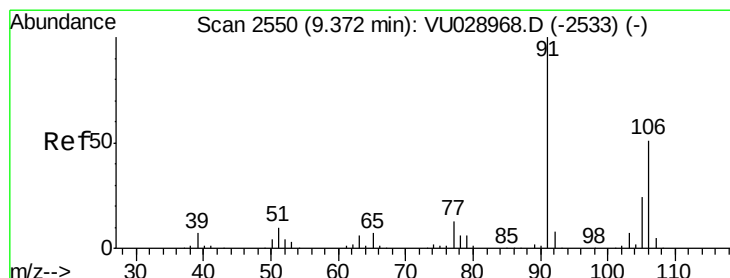
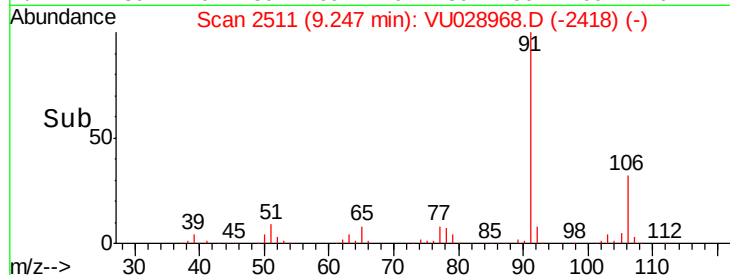
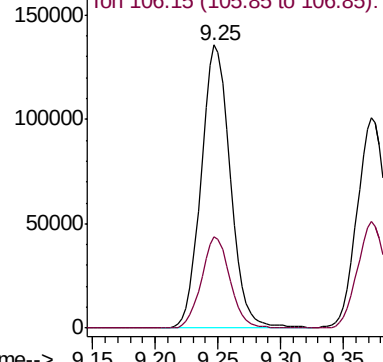
Ion Ratio Lower Upper

91 100

106 32.4 22.7 42.1



Abundance Ion 91.15 (90.85 to 91.85): VU028968.D (-2498) (-)



#53

m,p-xylene

Concen: 4.810 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU028968.D

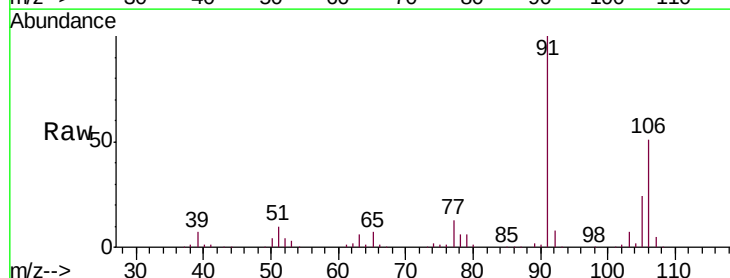
Acq: 27 Dec 2018 16:27

Tgt Ion: 106 Resp: 85695

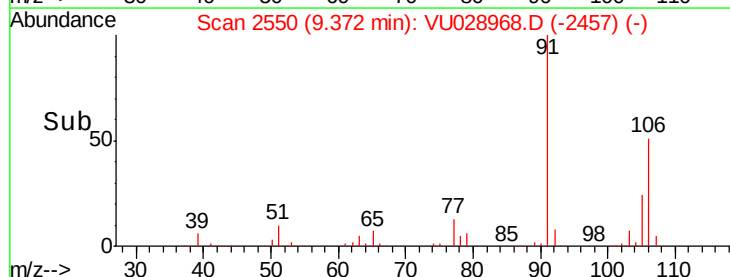
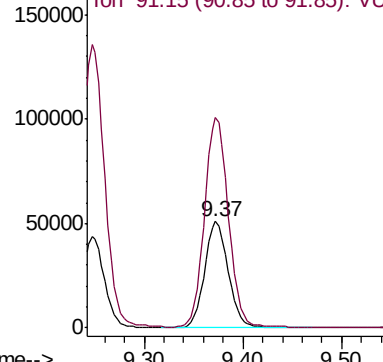
Ion Ratio Lower Upper

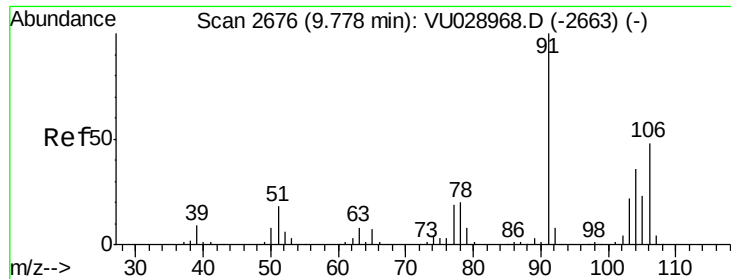
106 100

91 197.8 138.5 257.1



Abundance Ion 106.15 (105.85 to 106.85): VU028968.D (-2533) (-)

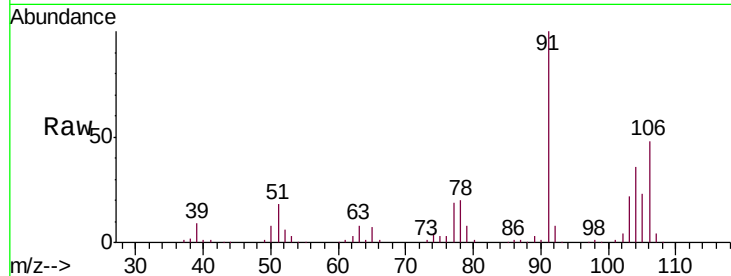




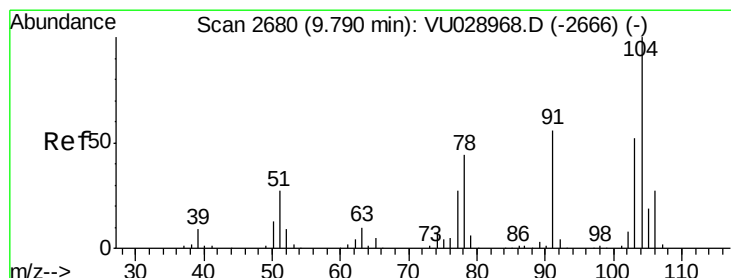
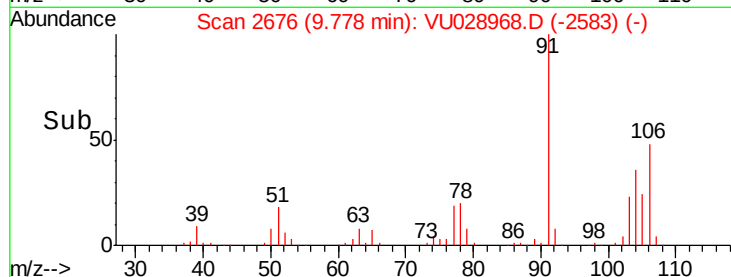
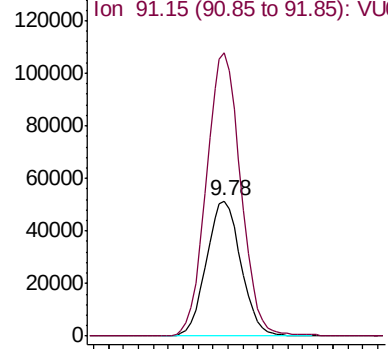
#54
o-xylene
Concen: 4.781 ug/L
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028968.D
Acq: 27 Dec 2018 16:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD00543

Tgt Ion:106 Resp: 82695
Ion Ratio Lower Upper
106 100
91 209.3 146.5 272.1

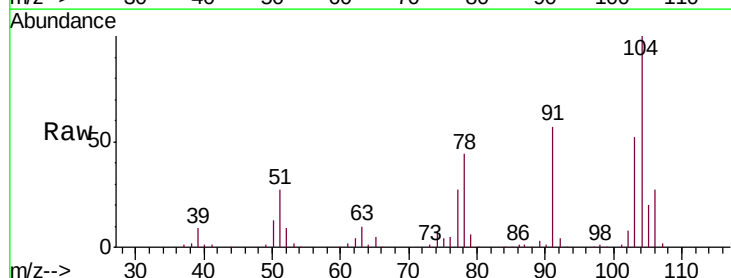


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

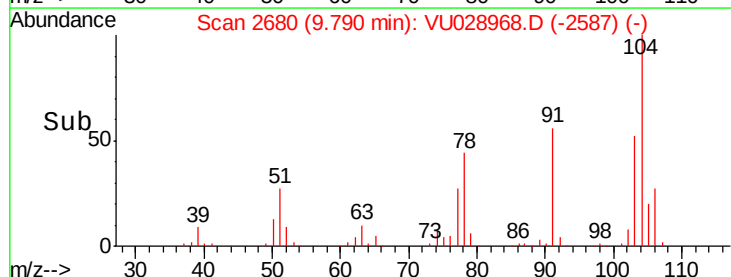
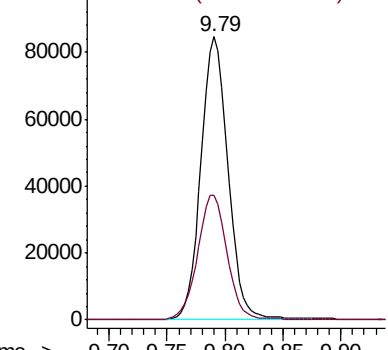


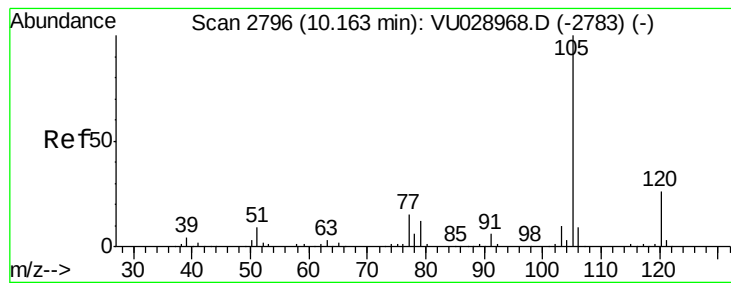
#55
Styrene
Concen: 4.778 ug/L
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028968.D
Acq: 27 Dec 2018 16:27

Tgt Ion:104 Resp: 137538
Ion Ratio Lower Upper
104 100
78 44.2 30.9 57.5



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





#56

Isopropylbenzene

Concen: 4.716 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00543

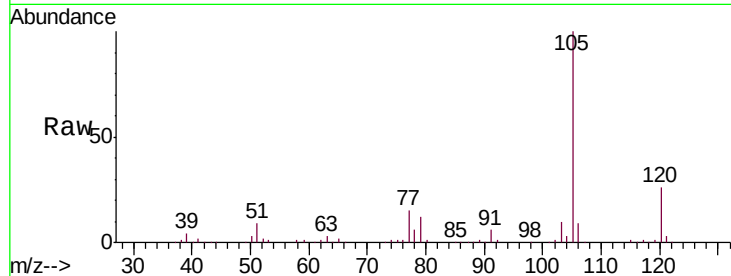
Tgt Ion: 105 Resp: 215138

Ion Ratio Lower Upper

105 100

120 26.1 20.9 31.3

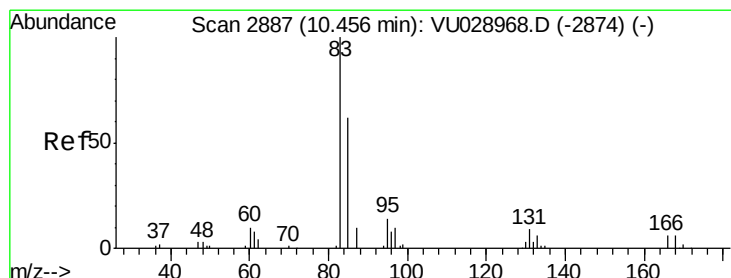
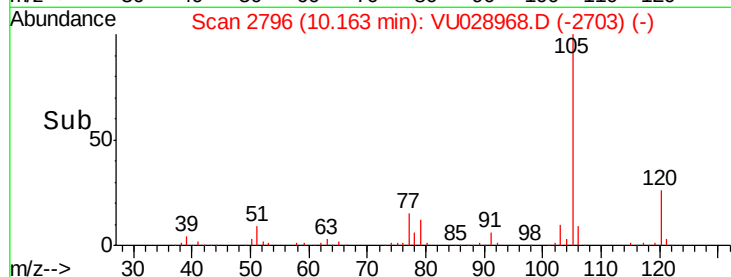
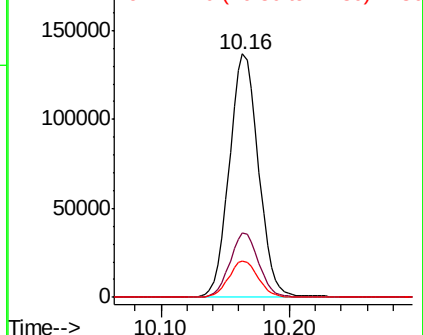
77 15.0 12.0 18.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.858 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

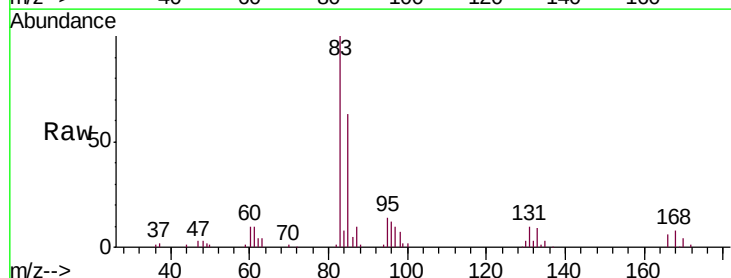
Tgt Ion: 83 Resp: 42508

Ion Ratio Lower Upper

83 100

85 62.9 44.0 81.8

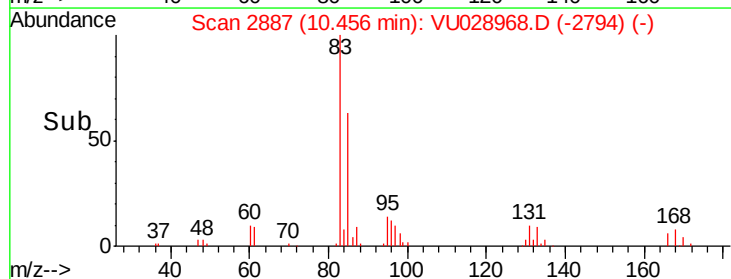
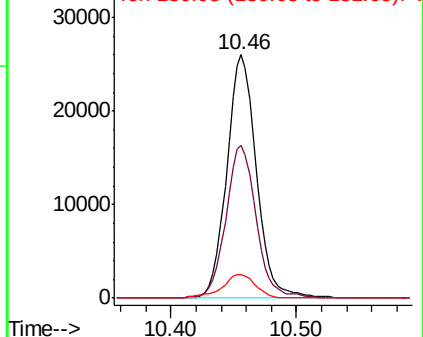
131 9.8 7.8 11.8

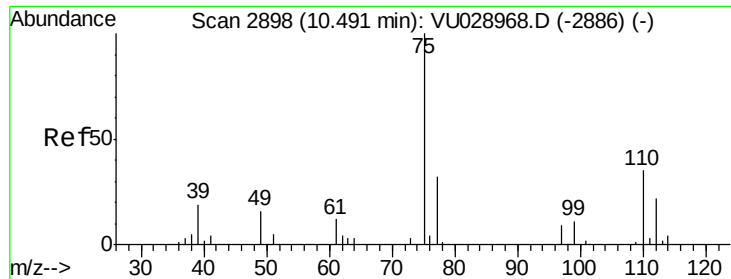


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.802 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

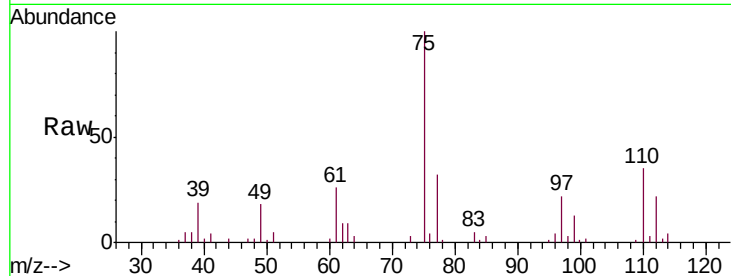
VSTD00543

Tgt Ion: 75 Resp: 29408

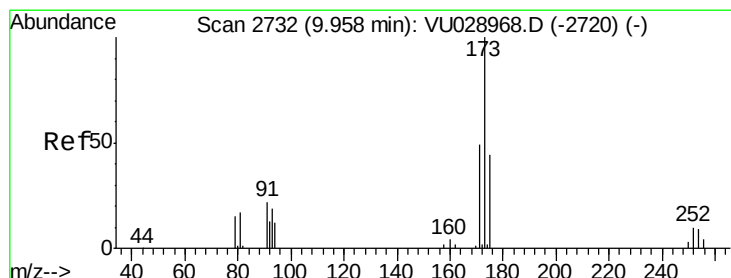
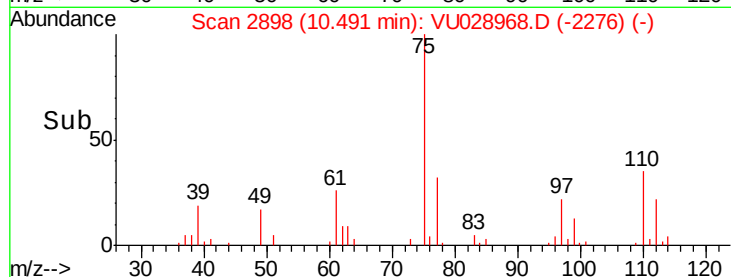
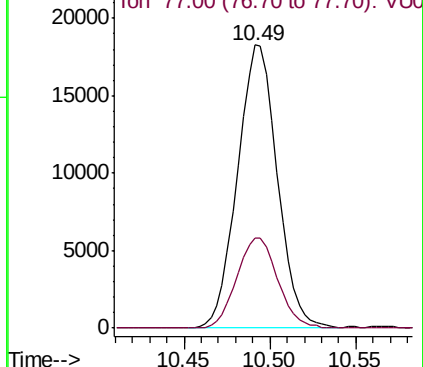
Ion Ratio Lower Upper

75 100

77 32.5 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU028968.D (-2886) (-)



#61

Bromoform

Concen: 4.871 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

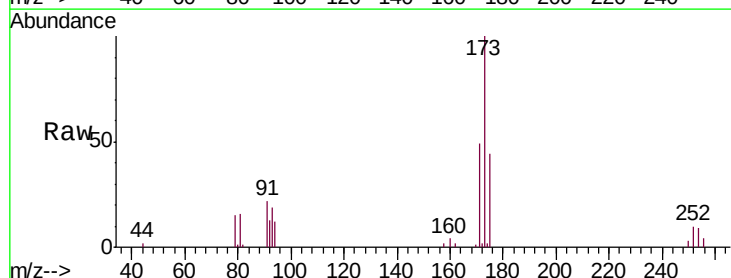
Tgt Ion: 173 Resp: 21291

Ion Ratio Lower Upper

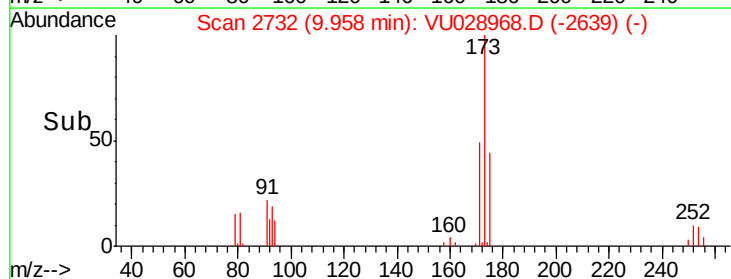
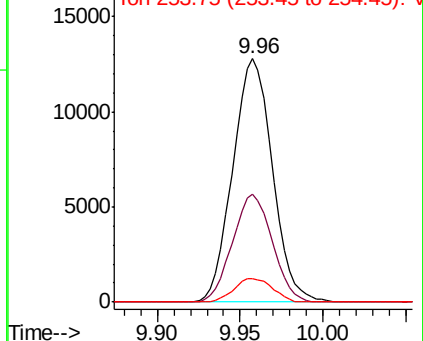
173 100

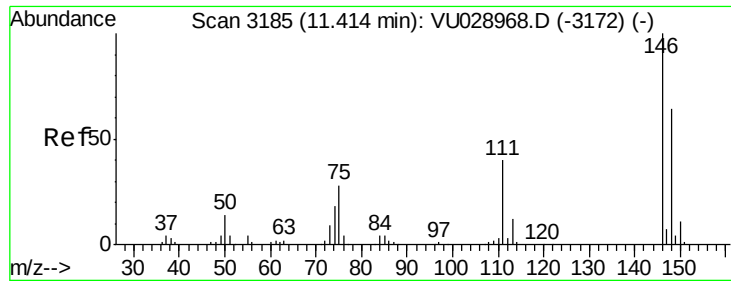
175 44.3 35.4 53.2

254 9.4 7.5 11.3



Abundance Ion 172.90 (172.60 to 173.60): VU028968.D (-2720) (-)

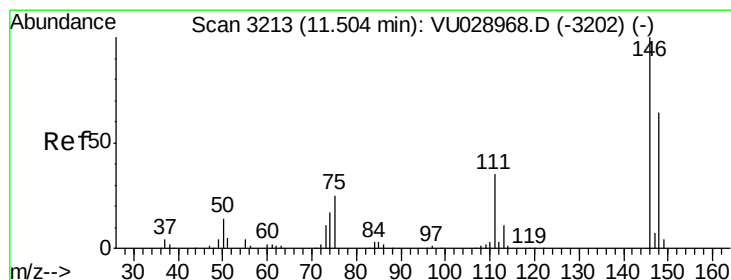
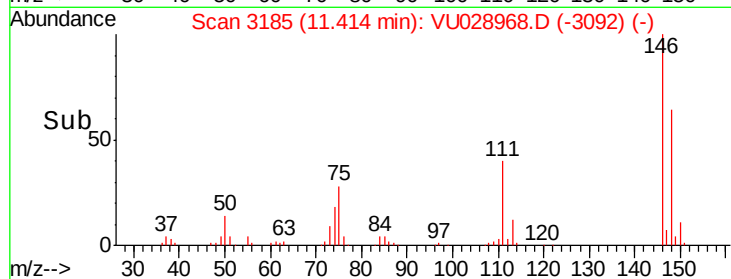
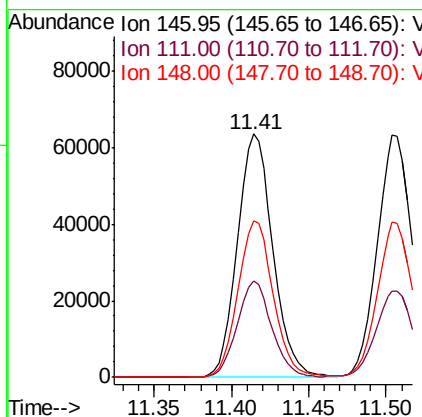
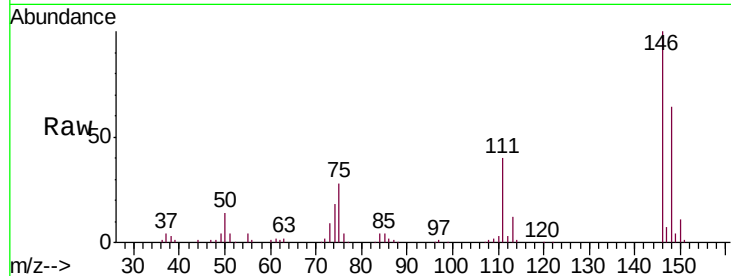




#62
 1,3-Dichlorobenzene
 Concen: 4.675 ug/L
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

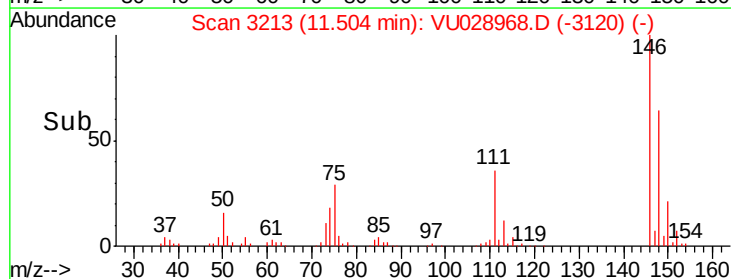
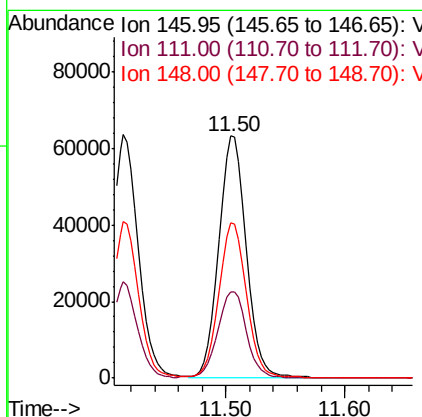
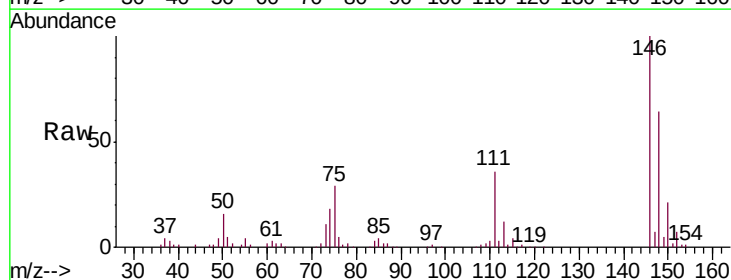
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00543

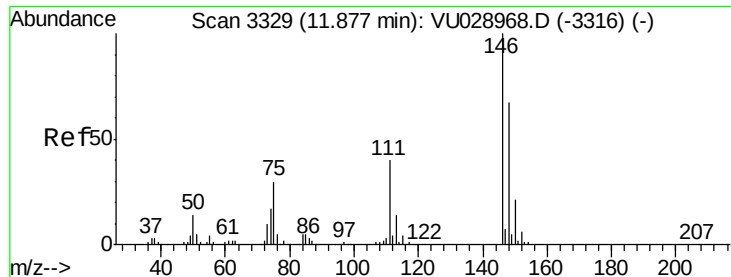
Tgt Ion:146 Resp: 101229
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.7 51.5
 148 64.2 44.9 83.5



#63
 1,4-Dichlorobenzene
 Concen: 4.583 ug/L
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Tgt Ion:146 Resp: 101259
 Ion Ratio Lower Upper
 146 100
 111 35.6 24.9 46.3
 148 64.1 44.9 83.3

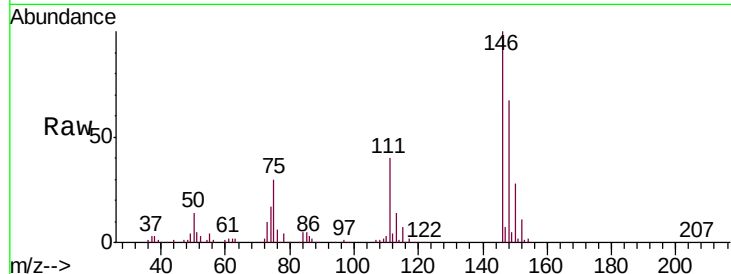




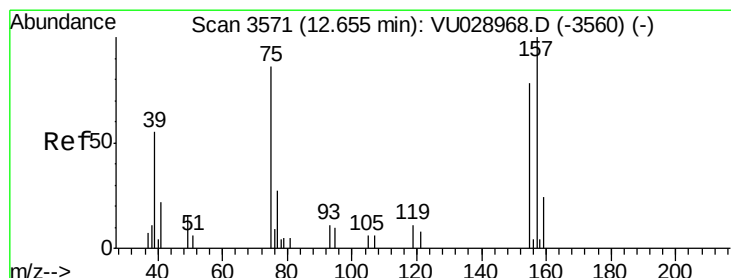
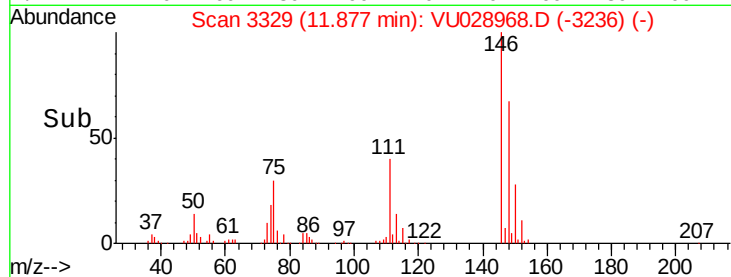
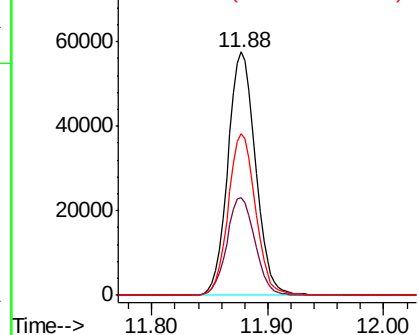
#65
 1,2-Dichlorobenzene
 Concen: 4.654 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00543

Tgt Ion: 146 Resp: 95371
 Ion Ratio Lower Upper
 146 100
 111 40.3 32.2 48.4
 148 66.5 53.2 79.8

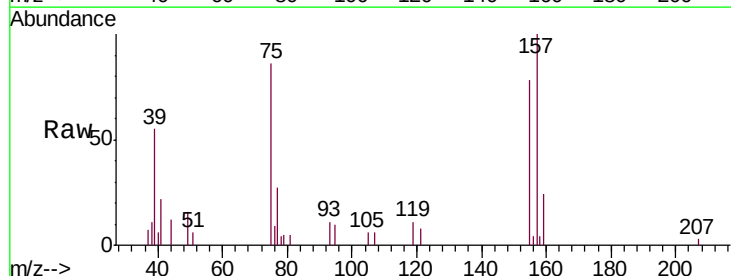


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

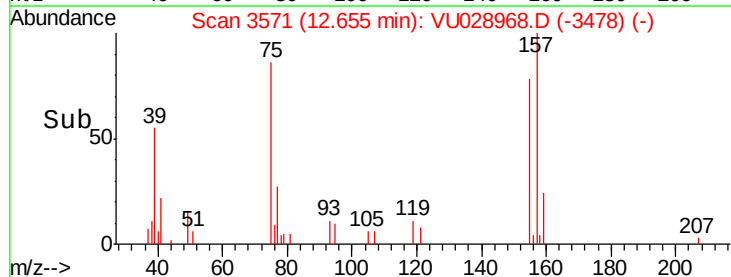
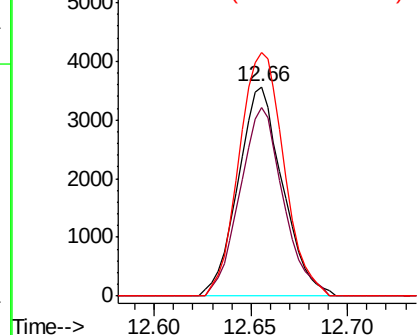


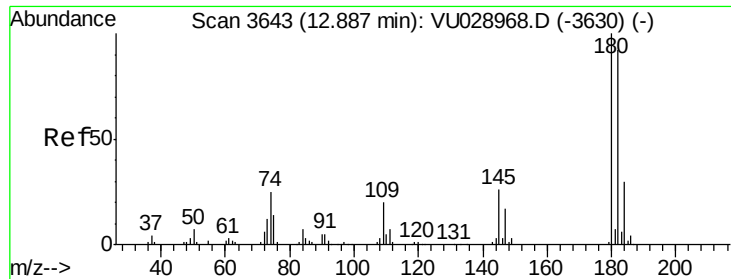
#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.723 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Tgt Ion: 75 Resp: 5714
 Ion Ratio Lower Upper
 75 100
 155 90.2 72.2 108.2
 157 116.3 93.0 139.6



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

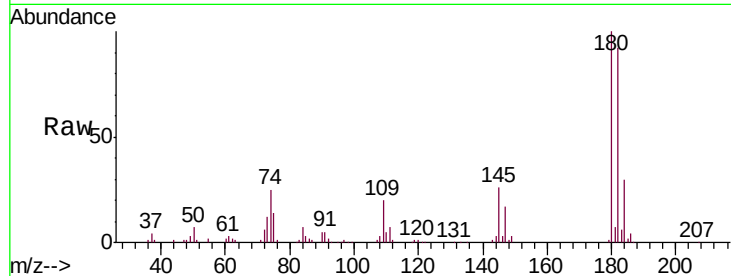




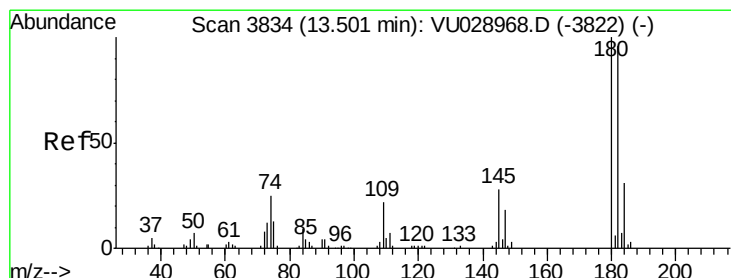
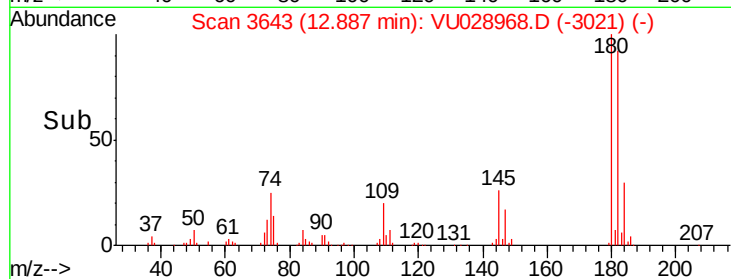
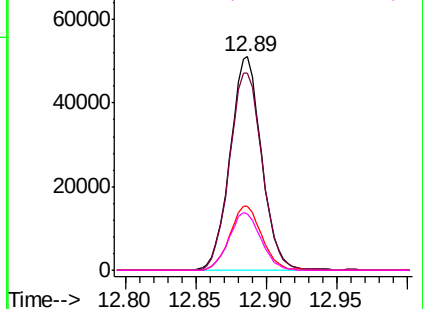
#67
 1,3,5-Trichlorobenzene
 Concen: 4.774 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00543

Tgt Ion:	180	Resp:	79987
Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.6	114.8
184	30.5	24.4	36.6
145	27.1	21.7	32.5

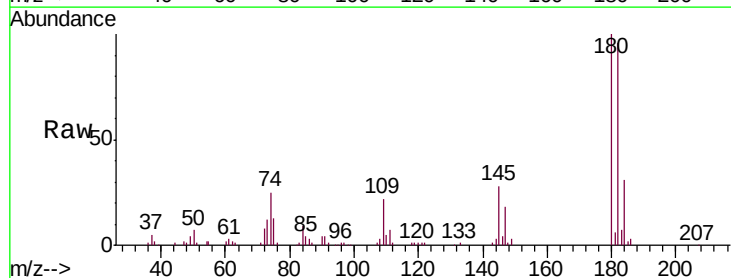


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

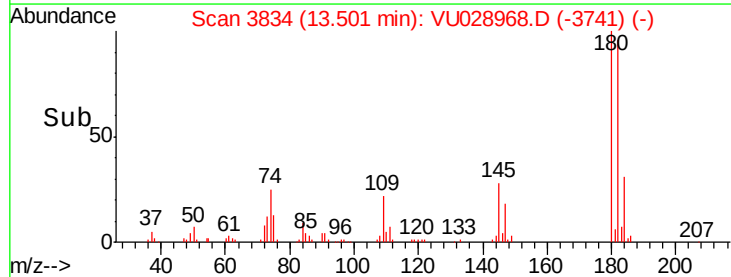
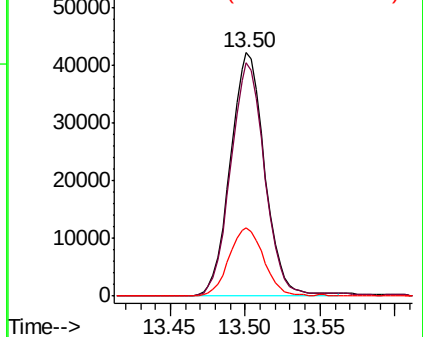


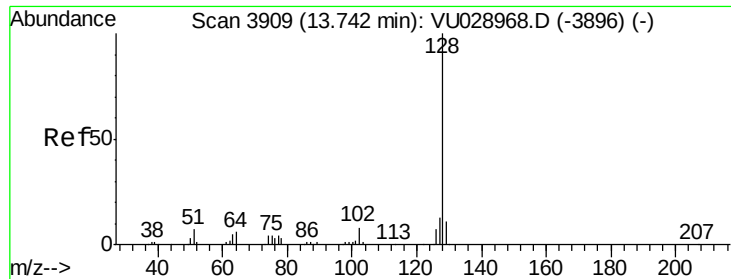
#68
 1,2,4-trichlorobenzene
 Concen: 4.841 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028968.D
 Acq: 27 Dec 2018 16:27

Tgt Ion:	180	Resp:	67600
Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.0	114.0
145	28.2	22.6	33.8



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





#69

Naphthalene

Concen: 4.973 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00543

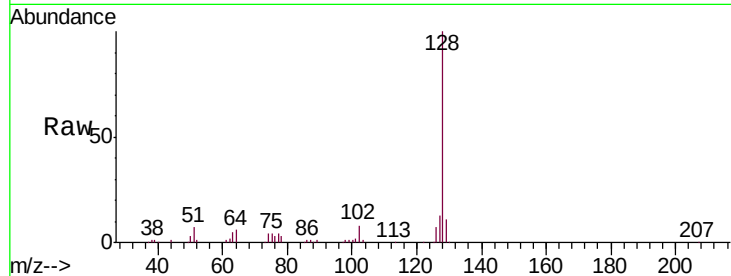
Tgt Ion:128 Resp: 118769

Ion Ratio Lower Upper

128 100

129 10.4 8.3 12.5

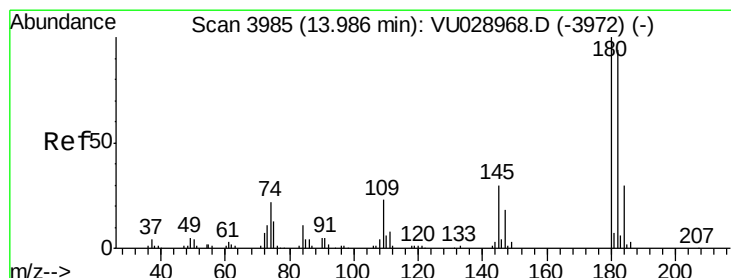
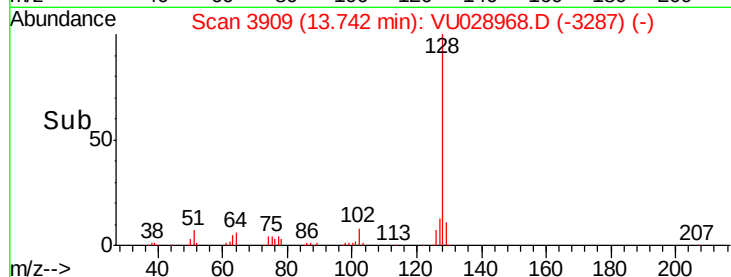
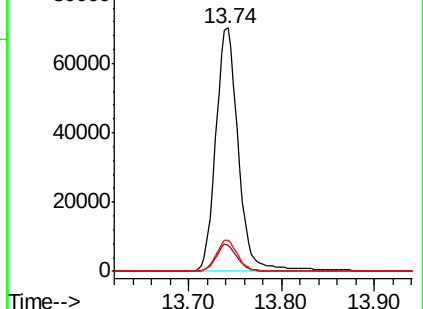
127 12.2 9.8 14.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.691 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028968.D

Acq: 27 Dec 2018 16:27

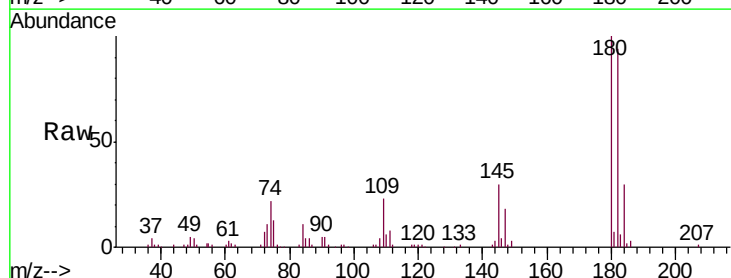
Tgt Ion:180 Resp: 62477

Ion Ratio Lower Upper

180 100

182 96.4 77.1 115.7

145 30.7 24.6 36.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

