

Data File : VV013251.D
Acq On : 21 Oct 2019 18:09
Operator : SY/MD
Sample : VSTD0.531
Misc : 25.00ML/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Quant Time: Oct 22 02:31:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR102119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 22 02:16:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	452397	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	486436	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	267669	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	16561	0.49	ug/L	0.00
7) Chloroethane-d5	1.58	69	13726	0.50	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	28297	0.47	ug/L	0.00
20) 2-Butanone-d5	4.01	46	14884	2.53	ug/L	0.01
24) Chloroform-d	4.40	84	37248	0.48	ug/L	0.01
26) 1,2-Dichloroethane-d4	5.08	65	17927	0.50	ug/L	0.00
32) Benzene-d6	5.10	84	69623	0.44	ug/L	0.01
36) 1,2-Dichloropropane-d6	6.12	67	20530	0.43	ug/L	0.00
41) Toluene-d8	7.36	98	60120	0.41	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	8612	0.49	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	23184	3.72	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	15948	0.47	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	29660	0.59	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	24324	0.492 ug/L	98
3) Chloromethane	1.25	50	22863	0.537 ug/L	98
5) Vinyl chloride	1.32	62	22011	0.510 ug/L	97
6) Bromomethane	1.53	94	13056	0.545 ug/L	100
8) Chloroethane	1.60	64	13853	0.546 ug/L	98
9) Trichlorofluoromethane	1.77	101	32843	0.534 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	19426	0.532 ug/L	97
12) 1,1-Dichloroethene	2.14	96	18355	0.524 ug/L	92
13) Acetone	2.24	43	8153	2.528 ug/L	76
14) Carbon disulfide	2.31	76	54766	0.554 ug/L	96
15) Methyl Acetate	2.48	43	8179	0.777 ug/L	95
16) Methylene chloride	2.53	84	33037	0.445 ug/L	92
17) Methyl tert-butyl Ether	2.81	73	47097	0.590 ug/L #	92
18) trans-1,2-Dichloroethene	2.79	96	25044	0.623 ug/L	95
19) 1,1-Dichloroethane	3.23	63	39676	0.591 ug/L	100
21) 2-Butanone	4.08	43	19711	2.836 ug/L #	62
22) cis-1,2-Dichloroethene	3.96	96	22994	0.525 ug/L #	91
23) Bromochloromethane	4.30	128	11487	0.556 ug/L	91
25) Chloroform	4.43	83	51308	0.596 ug/L	96
27) 1,2-Dichloroethane	5.18	62	23926	0.523 ug/L	96
29) 1,1,1-Trichloroethane	4.66	97	34600	0.487 ug/L	95
30) Cyclohexane	4.72	56	32447	0.446 ug/L	95
31) Carbon tetrachloride	4.87	117	30998	0.487 ug/L	98
33) Benzene	5.15	78	84075	0.459 ug/L	100
34) Trichloroethene	5.96	95	25201	0.519 ug/L	97
35) Methylcyclohexane	6.17	83	32685	0.437 ug/L	97
37) 1,2-Dichloropropane	6.22	63	20707	0.469 ug/L #	93
38) Bromodichloromethane	6.56	83	29544	0.517 ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	30244	0.492 ug/L	93
40) 4-Methyl-2-pentanone	7.28	43	108918	4.936 ug/L	98

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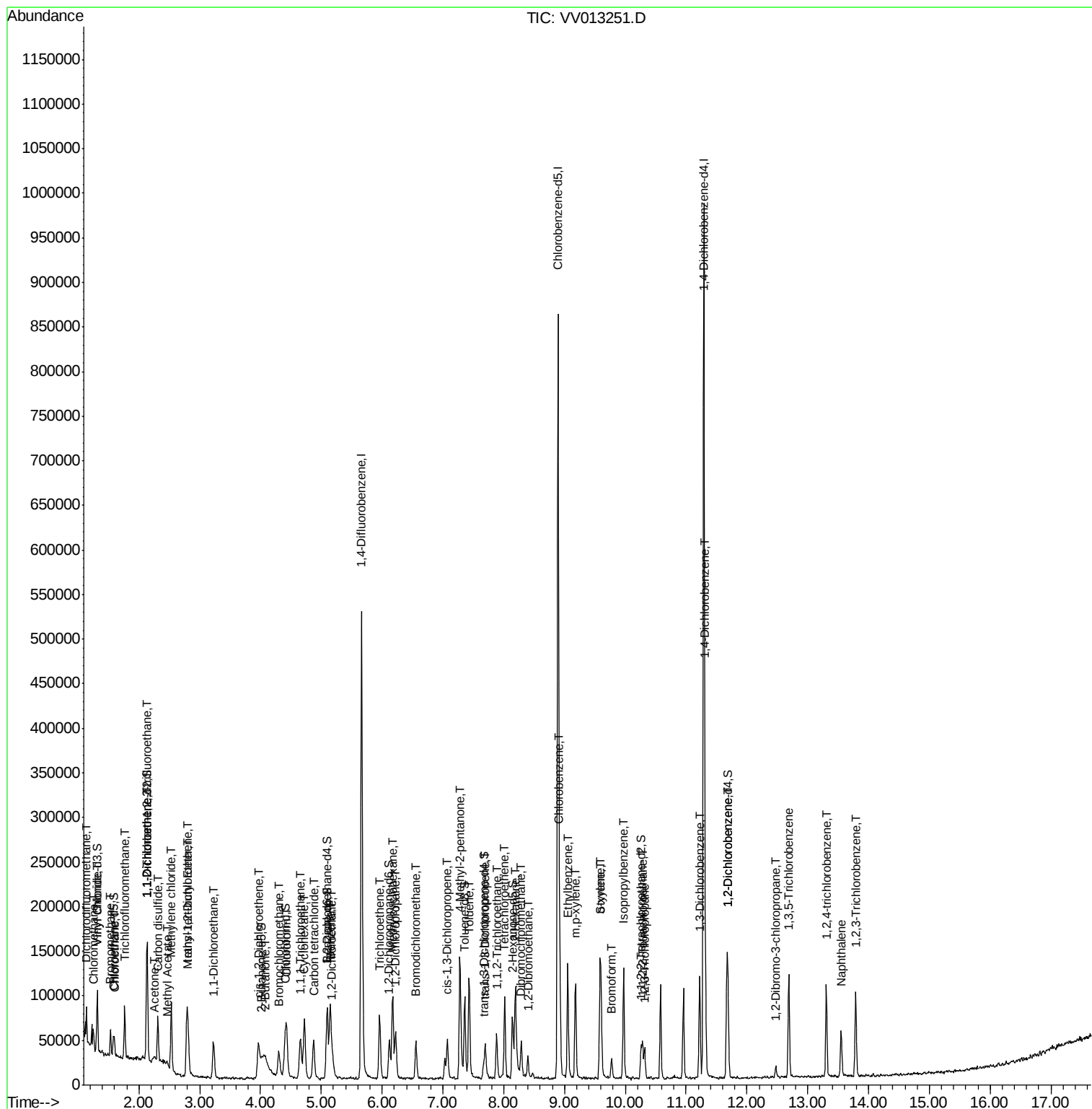
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	85190	0.447	ug/L	94
44) trans-1,3-Dichloropropene	7.69	75	22280	0.472	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	15363	0.497	ug/L	92
47) Tetrachloroethene	8.02	164	22175	0.501	ug/L	95
48) 2-Hexanone	8.19	43	75236	4.813	ug/L	89
49) Dibromochloromethane	8.29	129	20336	0.530	ug/L	97
50) 1,2-Dibromoethane	8.40	107	15530	0.539	ug/L #	95
51) Chlorobenzene	8.92	112	60969	0.490	ug/L	97
52) Ethylbenzene	9.05	91	86478	0.435	ug/L	97
53) m,p-xylene	9.18	106	30030	0.390	ug/L	92
54) o-xylene	9.59	106	29788	0.413	ug/L	98
55) Styrene	9.60	104	48477	0.395	ug/L	98
56) Isopropylbenzene	9.97	105	75330	0.393	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	18766	0.539	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	13863	0.530	ug/L	94
61) Bromoform	9.77	173	11115	0.560	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	48297	0.530	ug/L	96
63) 1,4-Dichlorobenzene	11.31	146	50398	0.550	ug/L	95
65) 1,2-Dichlorobenzene	11.69	146	45483	0.541	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	3064	0.649	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	38831	0.584	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	34337	0.601	ug/L	97
69) Naphthalene	13.55	128	42568	0.545	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	30324	0.565	ug/L	96

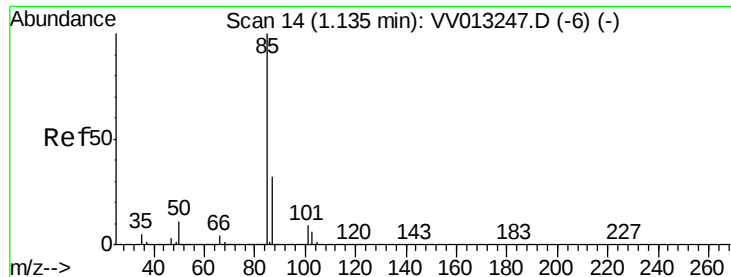
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.492 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

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Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

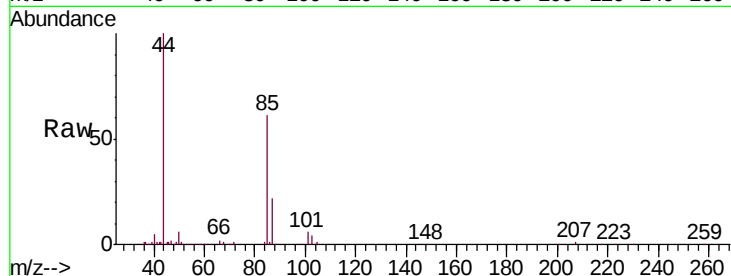
VSTD0.531

Tgt Ion: 85 Resp: 24324

Ion Ratio Lower Upper

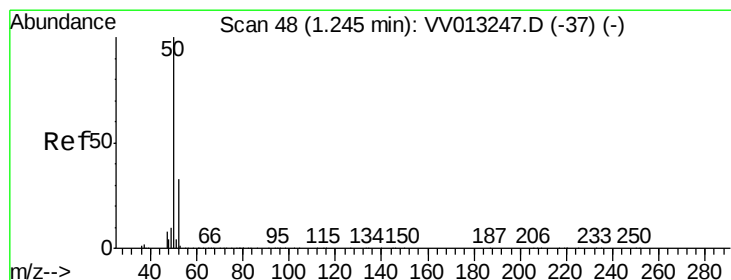
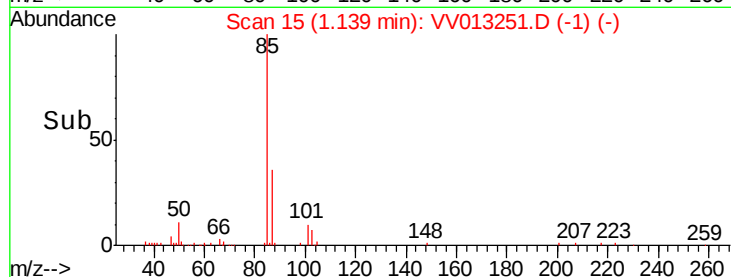
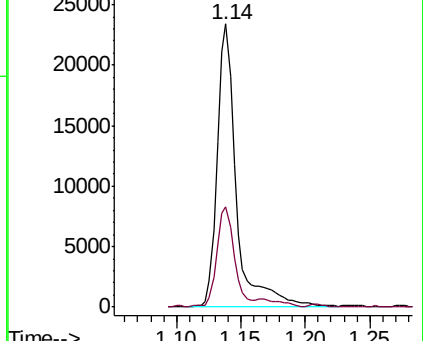
85 100

87 32.6 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 0.537 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.01 min

Lab File: VV013251.D

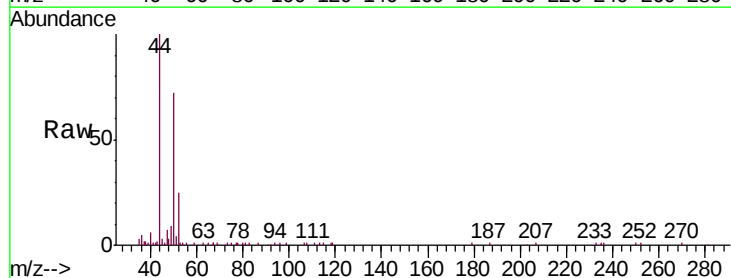
Acq: 21 Oct 2019 18:09

Tgt Ion: 50 Resp: 22863

Ion Ratio Lower Upper

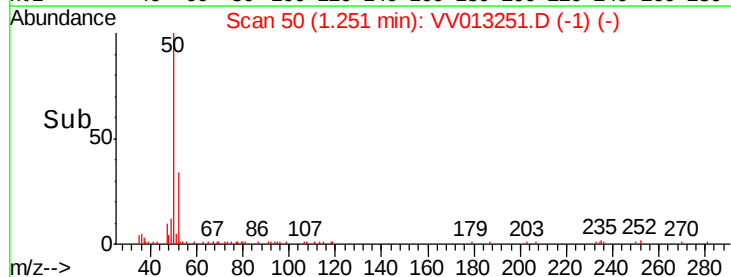
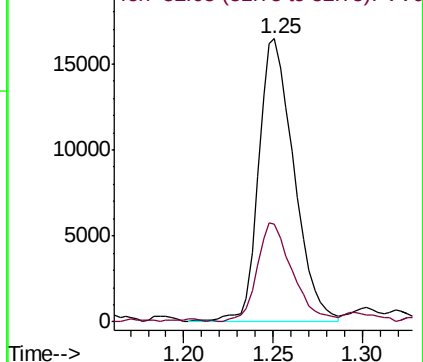
50 100

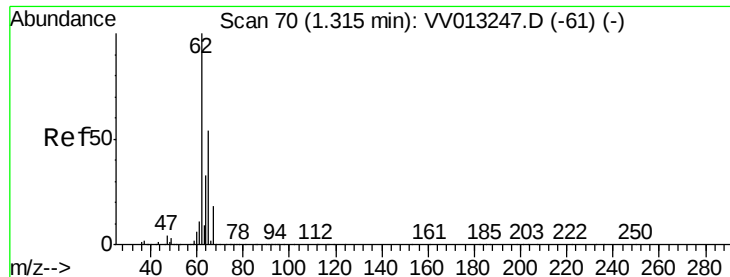
52 34.4 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 0.510 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

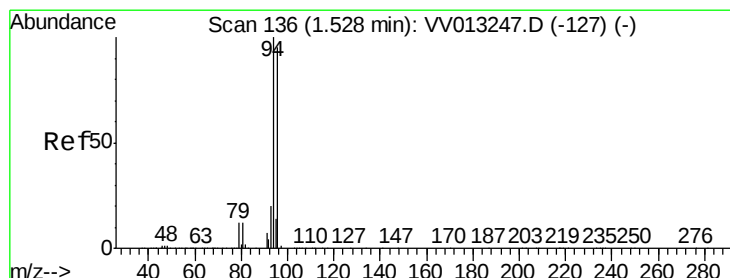
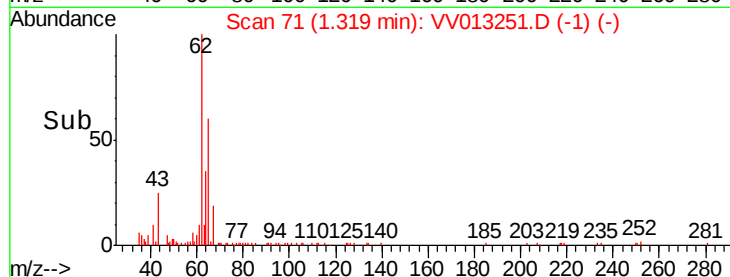
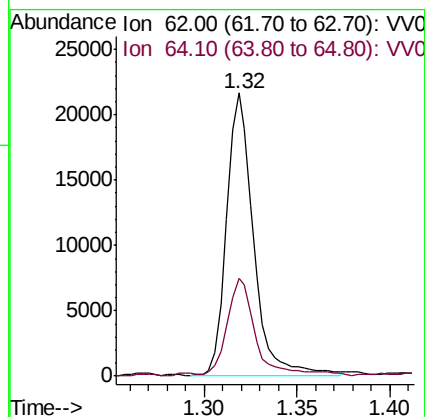
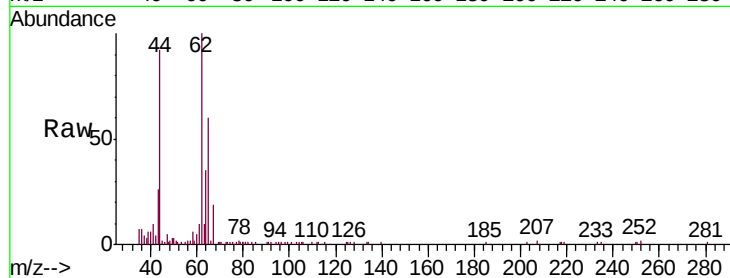
VSTD0.531

Tgt Ion: 62 Resp: 22011

Ion Ratio Lower Upper

62 100

64 34.5 22.9 42.5



#6

Bromomethane

Concen: 0.545 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.01 min

Lab File: VV013251.D

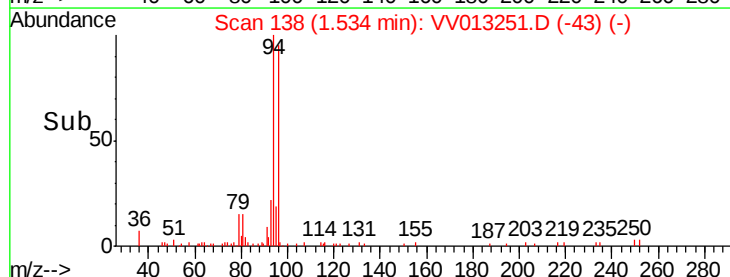
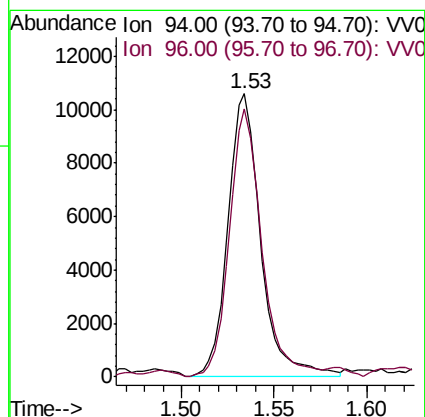
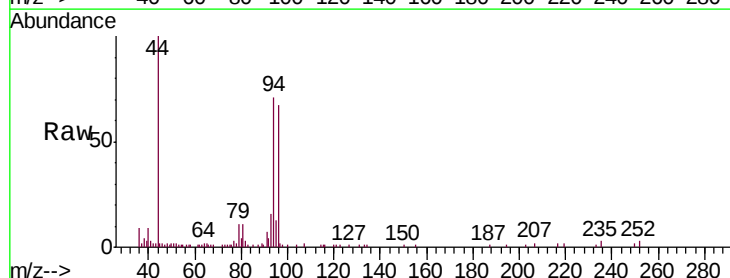
Acq: 21 Oct 2019 18:09

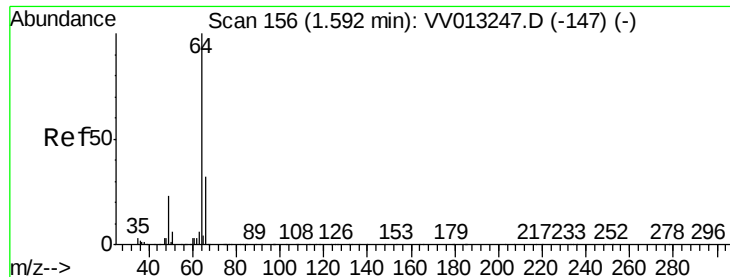
Tgt Ion: 94 Resp: 13056

Ion Ratio Lower Upper

94 100

96 94.5 66.2 123.0





#8

Chloroethane

Concen: 0.546 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.01 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

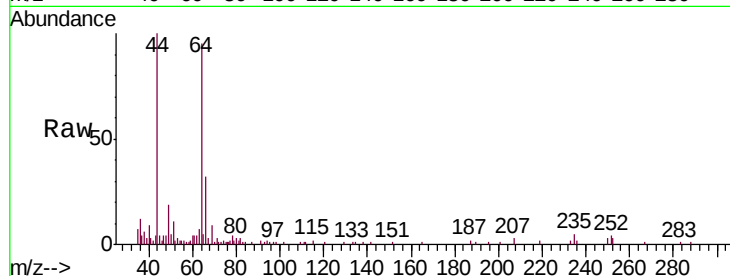
VSTD0.531

Tgt Ion: 64 Resp: 13853

Ion Ratio Lower Upper

64 100

66 33.8 22.7 42.3



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

12000

10000

8000

6000

4000

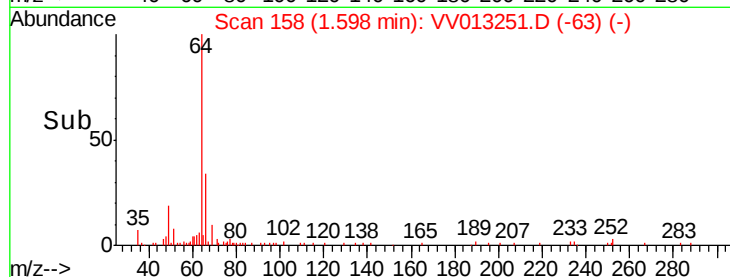
2000

0

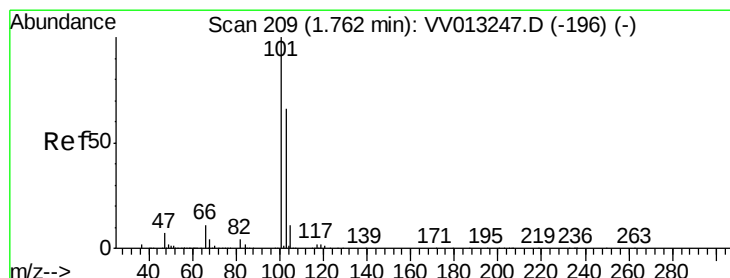
1.55

1.60

1.65



Time-->



#9

Trichlorofluoromethane

Concen: 0.534 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV013251.D

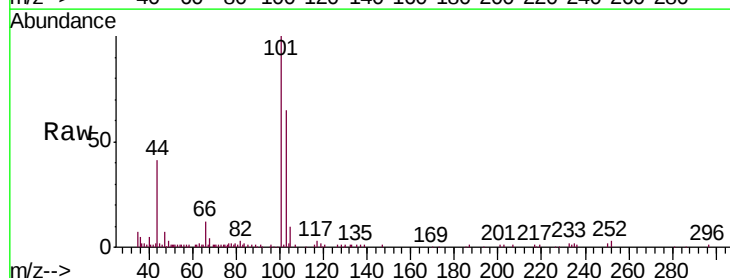
Acq: 21 Oct 2019 18:09

Tgt Ion: 101 Resp: 32843

Ion Ratio Lower Upper

101 100

103 65.8 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

30000

25000

20000

15000

10000

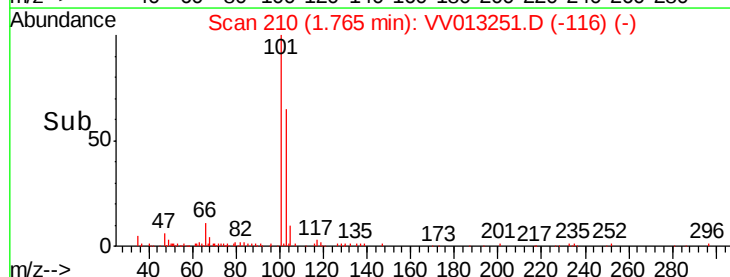
5000

0

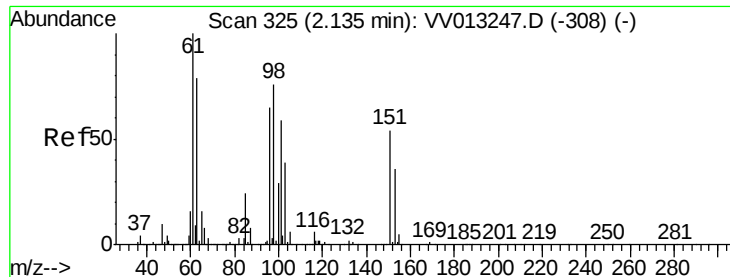
1.70

1.75

1.80



Time-->



#10

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

Concen: 0.532 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.531

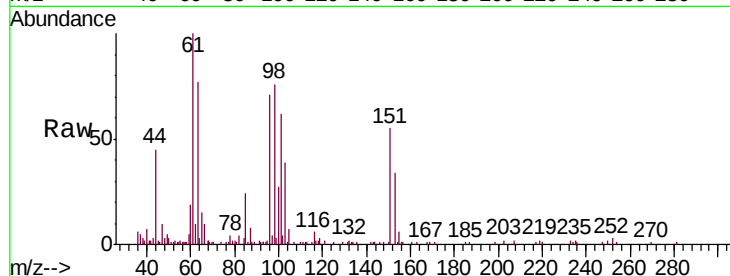
Tgt Ion: 101 Resp: 19426

Ion Ratio Lower Upper

101 100

85 39.6 31.8 47.8

151 87.1 72.9 109.3



Abundance Ion 101.00 (100.70 to 101.70): VV013247.D (-308) (-)

Ion 85.00 (84.70 to 85.70): VV013247.D (-308) (-)

Ion 151.00 (150.70 to 151.70): VV013247.D (-308) (-)

Time-->

2.05 2.10 2.15 2.20

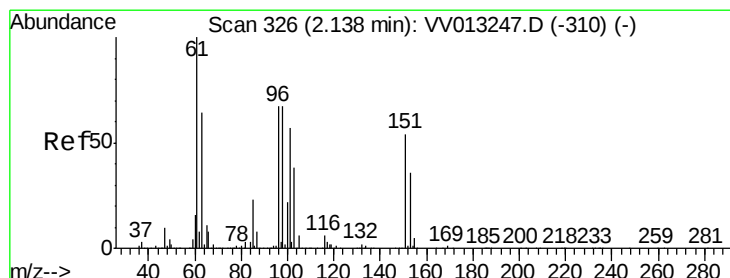
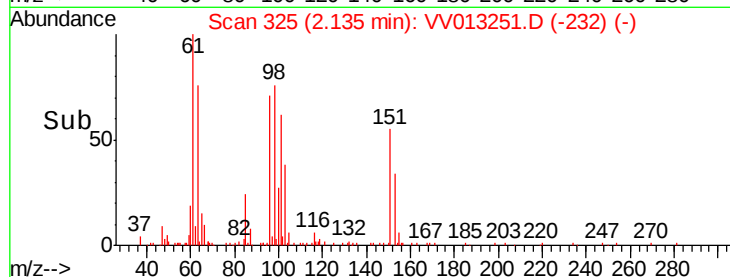
2.14

15000

10000

5000

0



#12

1,1-Dichloroethene

Concen: 0.524 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

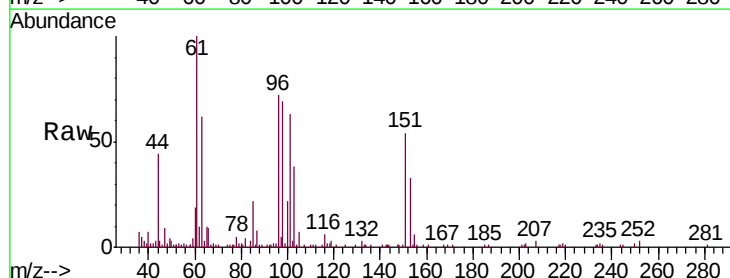
Tgt Ion: 96 Resp: 18355

Ion Ratio Lower Upper

96 100

61 139.6 104.0 193.1

63 87.2 67.1 124.5



Abundance Ion 96.00 (95.70 to 96.70): VV013247.D (-310) (-)

Ion 61.05 (60.75 to 61.75): VV013247.D (-310) (-)

Ion 63.00 (62.70 to 63.70): VV013247.D (-310) (-)

Time-->

2.10 2.15 2.20

2.14

25000

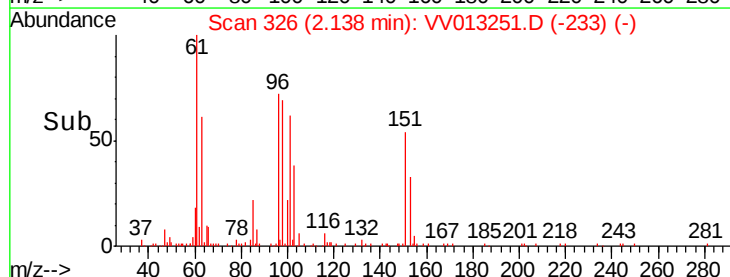
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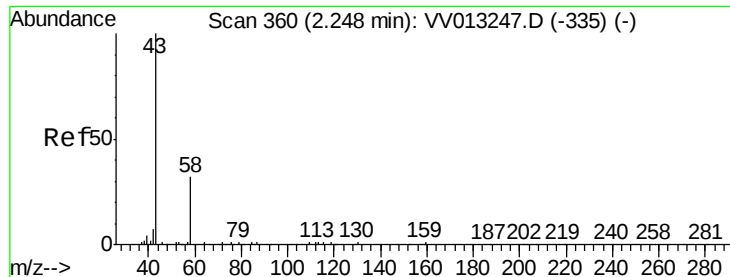
15000

10000

5000

0





#13

Acetone

Concen: 2.528 ug/L

RT: 2.24 min Scan# 357

Delta R.T. -0.01 min

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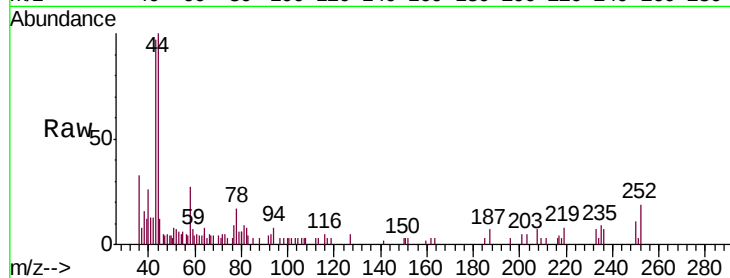
VSTD0.531

Tgt Ion: 43 Resp: 8153

Ion Ratio Lower Upper

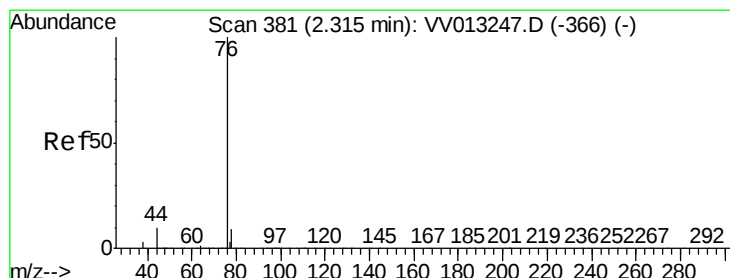
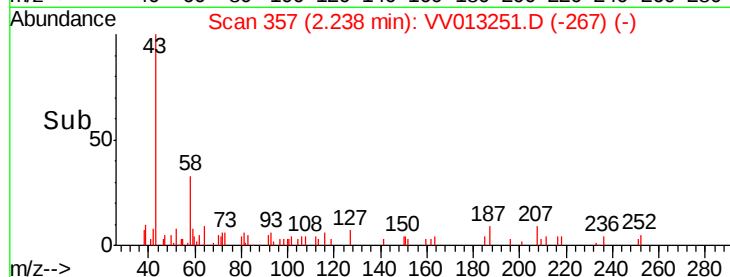
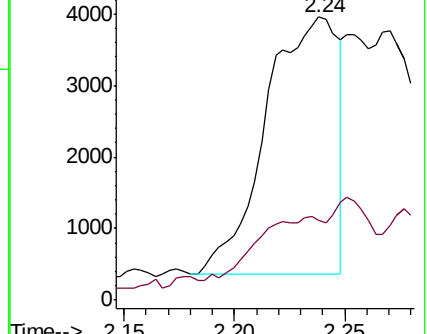
43 100

58 22.6 0.0 26.2



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 0.554 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV013251.D

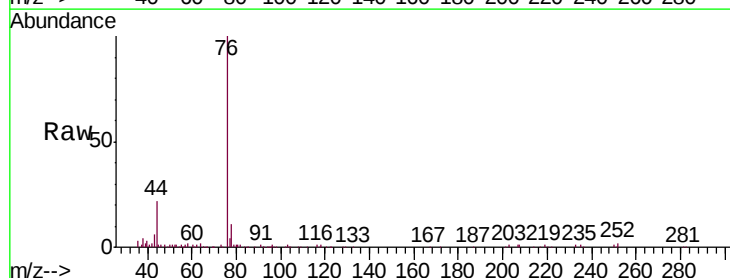
Acq: 21 Oct 2019 18:09

Tgt Ion: 76 Resp: 54766

Ion Ratio Lower Upper

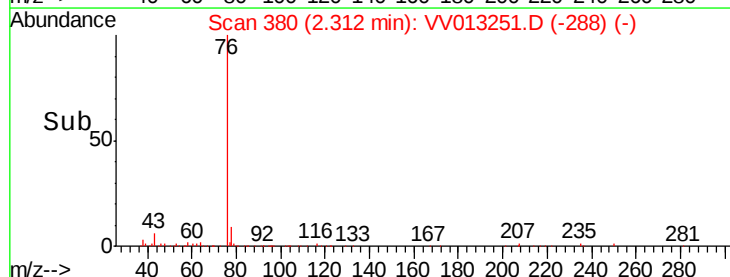
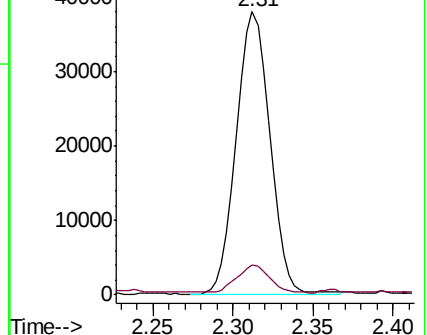
76 100

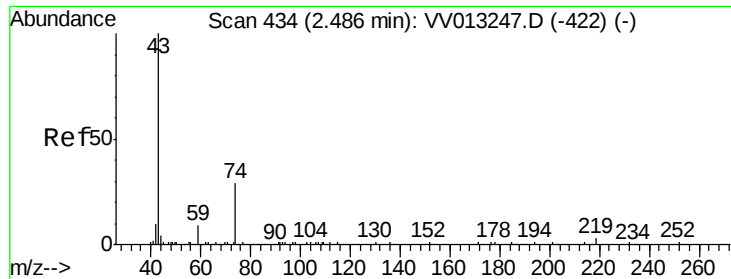
78 10.7 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0





#15

Methyl Acetate

Concen: 0.777 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.01 min

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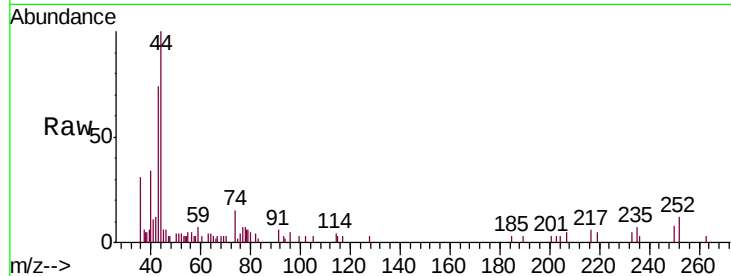
VSTD0.531

Tgt Ion: 43 Resp: 8179

Ion Ratio Lower Upper

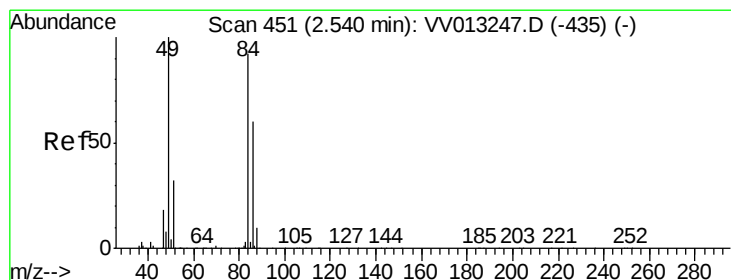
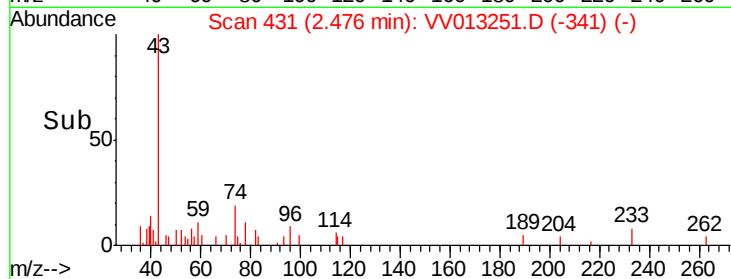
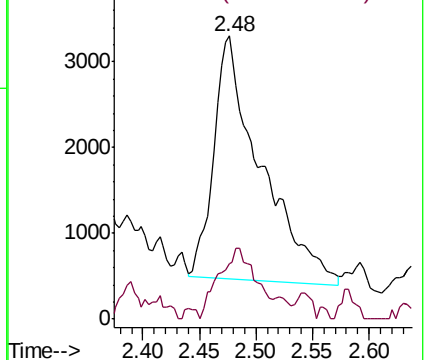
43 100

74 23.2 20.4 30.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 0.445 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.01 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

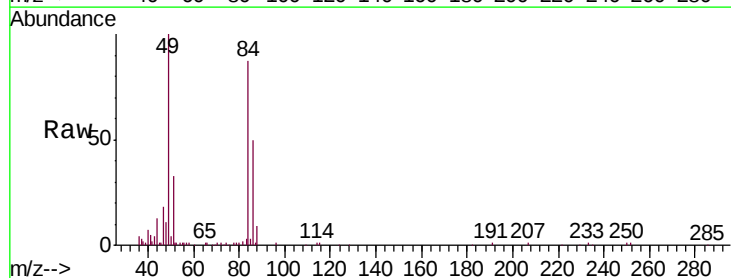
Tgt Ion: 84 Resp: 33037

Ion Ratio Lower Upper

84 100

86 57.5 46.2 85.8

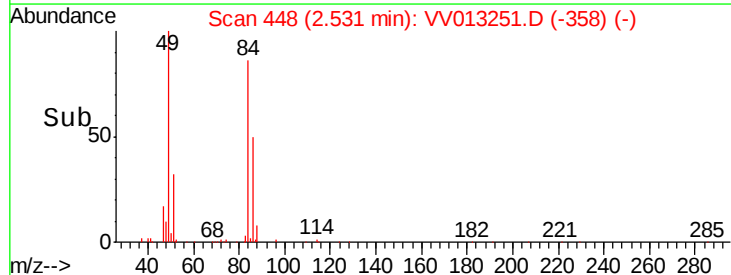
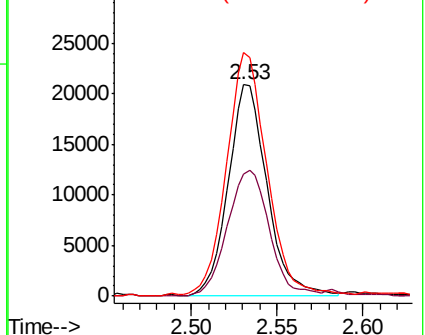
49 115.3 76.4 141.8

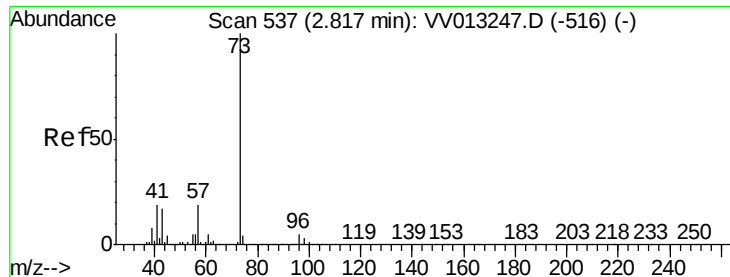


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

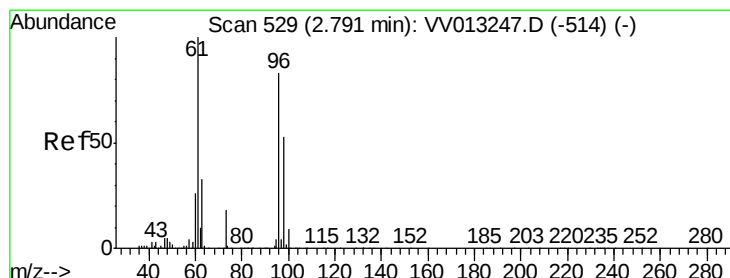
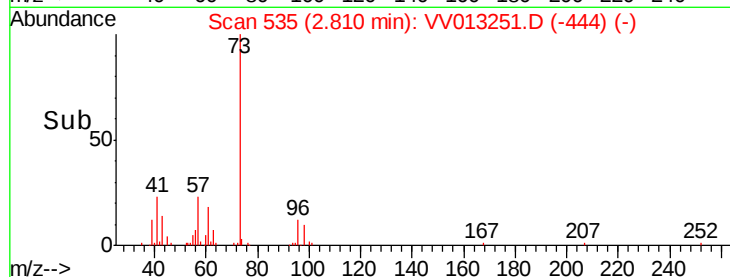
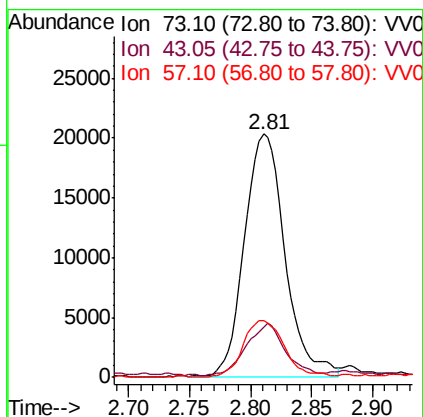
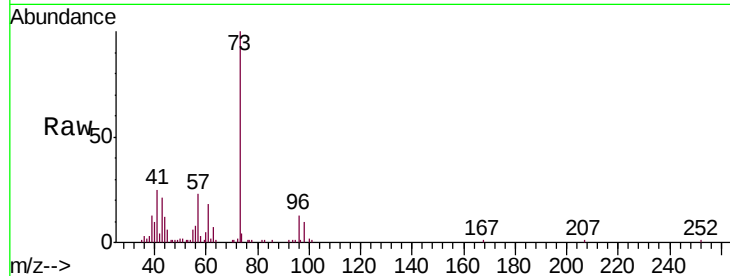




#17
Methyl tert-butyl Ether
Concen: 0.590 ug/L
RT: 2.81 min Scan# 535
Delta R.T. -0.01 min
Lab File: VV013251.D
Acq: 21 Oct 2019 18:09

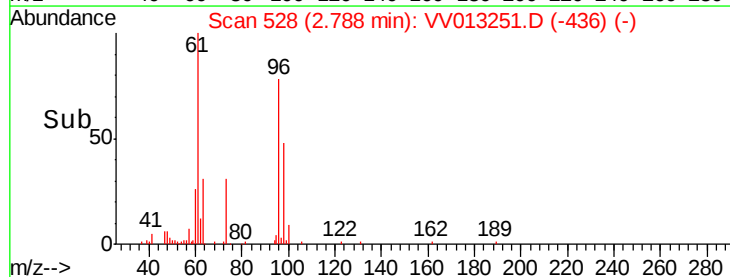
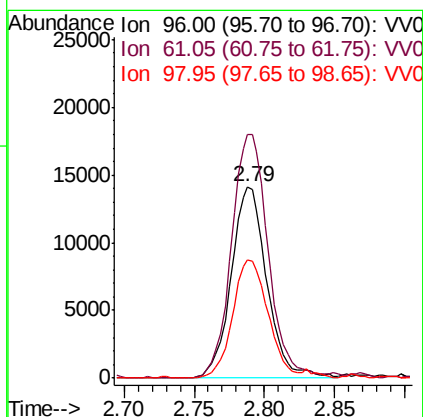
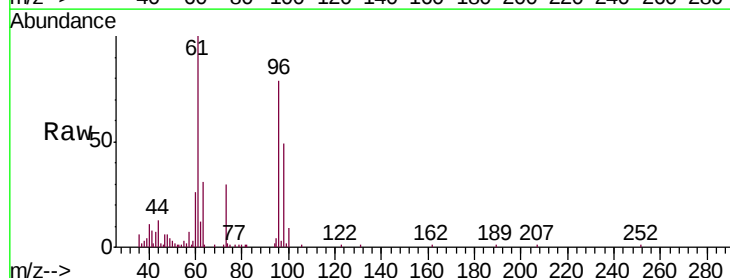
Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

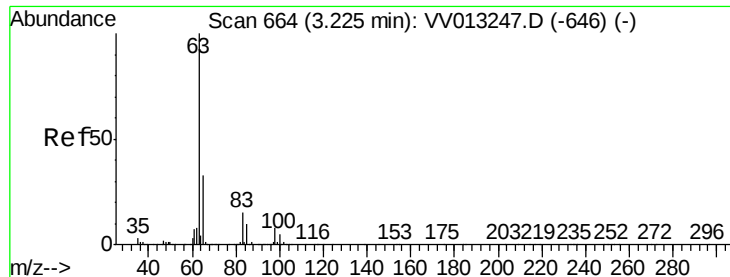
Tgt Ion: 73 Resp: 47097
Ion Ratio Lower Upper
73 100
43 20.1 13.1 19.7#
57 23.7 16.4 24.6



#18
trans-1,2-Dichloroethene
Concen: 0.623 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV013251.D
Acq: 21 Oct 2019 18:09

Tgt Ion: 96 Resp: 25044
Ion Ratio Lower Upper
96 100
61 127.3 84.4 156.8
98 62.0 44.4 82.4

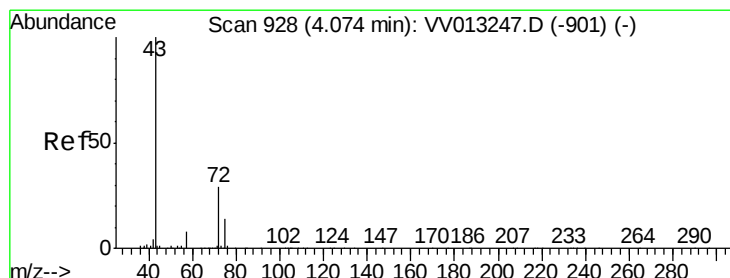
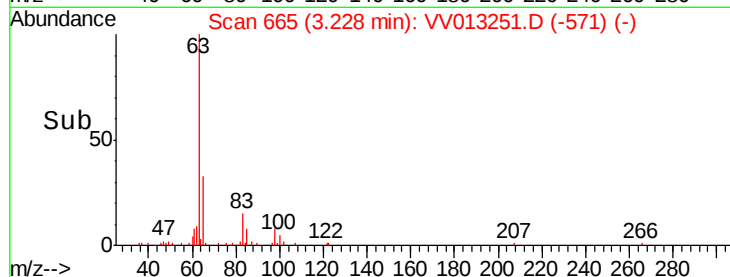
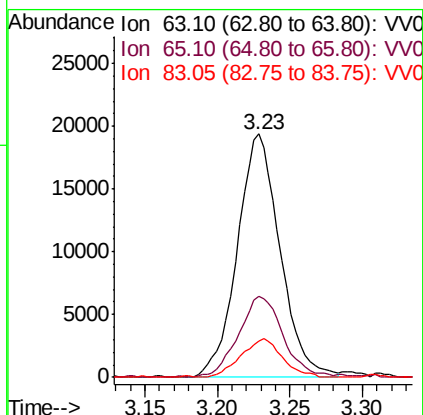
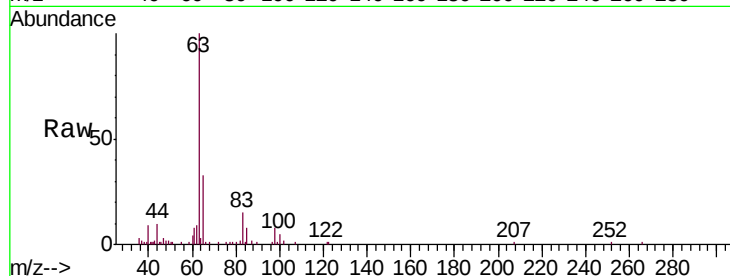




#19
 1,1-Dichloroethane
 Concen: 0.591 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

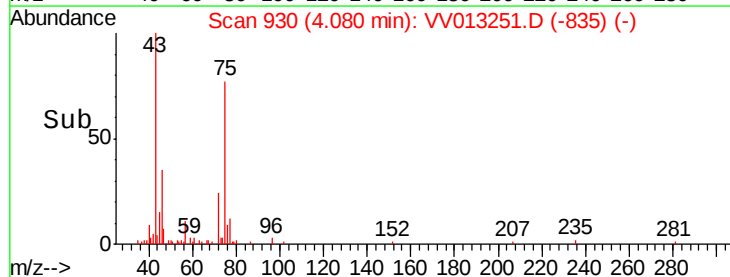
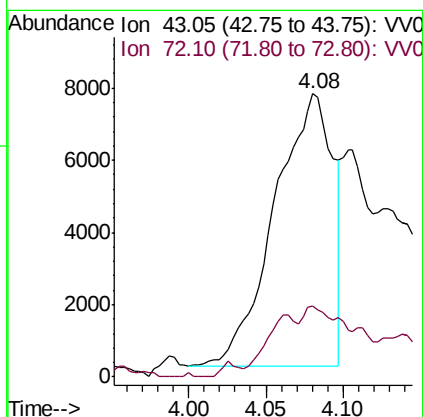
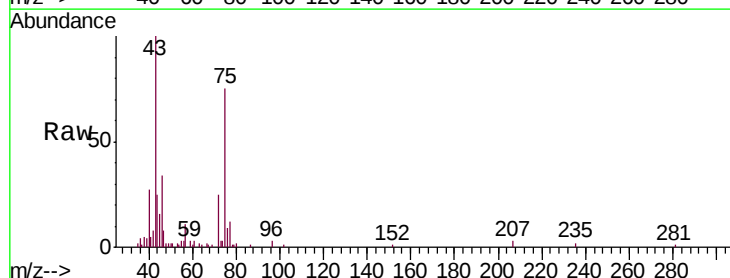
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.531

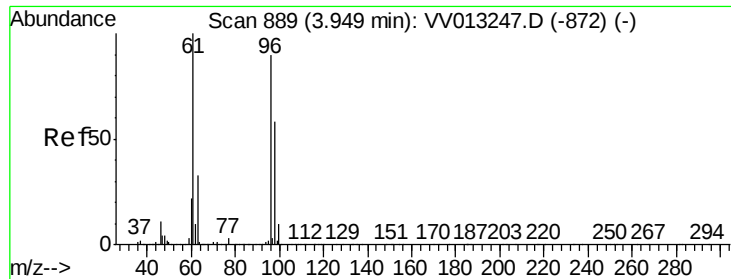
Tgt Ion:	63	Resp:	39676
Ion	Ratio	Lower	Upper
63	100		
65	33.0	23.0	42.8
83	14.8	10.2	19.0



#21
 2-Butanone
 Concen: 2.836 ug/L
 RT: 4.08 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

Tgt Ion:	43	Resp:	19711
Ion	Ratio	Lower	Upper
43	100		
72	6.8	13.1	39.3#



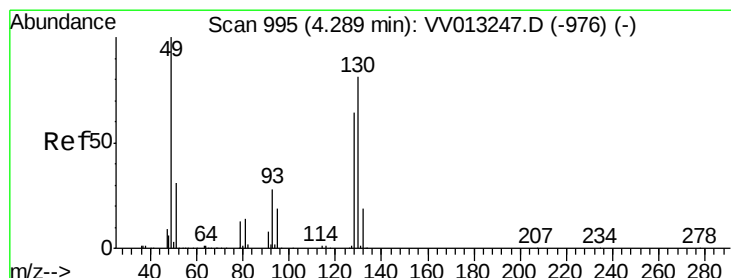
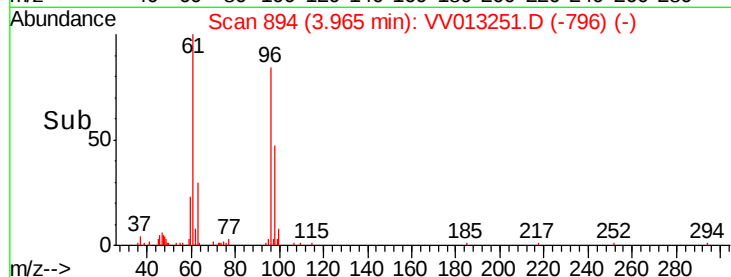
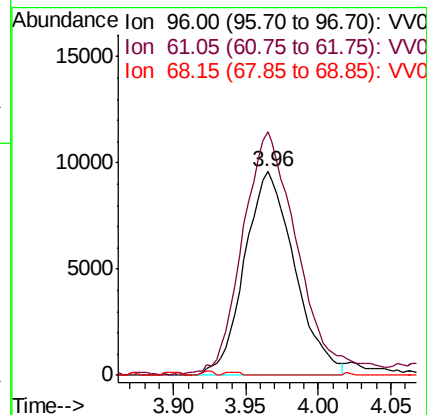
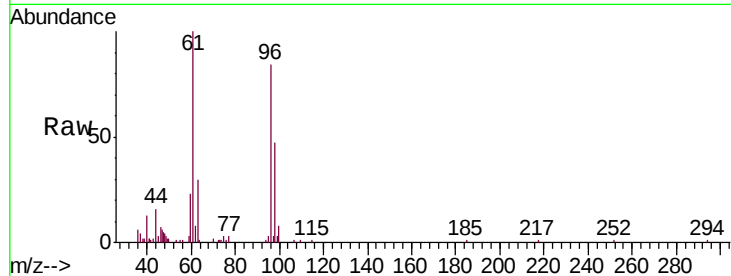


#22

cis-1,2-Dichloroethene
Concen: 0.525 ug/L
RT: 3.96 min Scan# 894
Delta R.T. 0.02 min
Lab File: VV013251.D
Acq: 21 Oct 2019 18:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

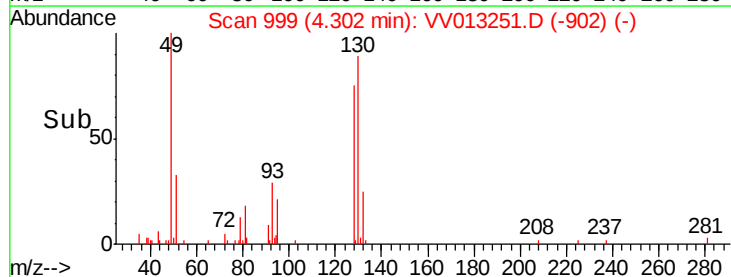
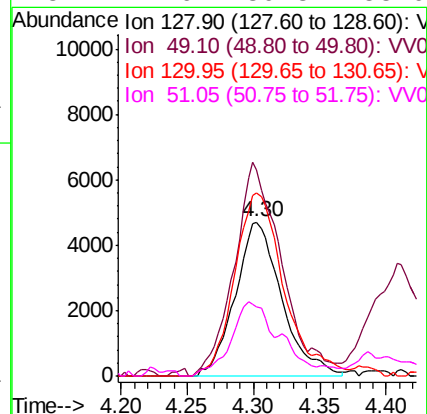
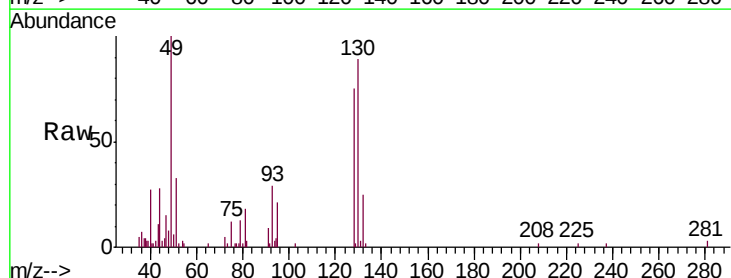
Tgt Ion: 96 Resp: 22994
Ion Ratio Lower Upper
96 100
61 119.7 77.3 143.7
68 0.0 0.1 0.1#

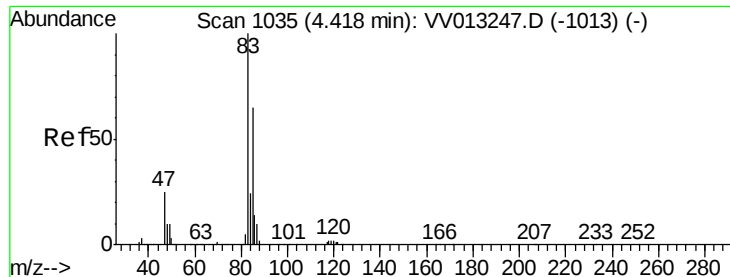


#23

Bromochloromethane
Concen: 0.556 ug/L
RT: 4.30 min Scan# 999
Delta R.T. 0.01 min
Lab File: VV013251.D
Acq: 21 Oct 2019 18:09

Tgt Ion: 128 Resp: 11487
Ion Ratio Lower Upper
128 100
49 141.3 109.9 204.1
130 119.5 88.7 164.7
51 44.6 39.3 58.9





#25

Chloroform

Concen: 0.596 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

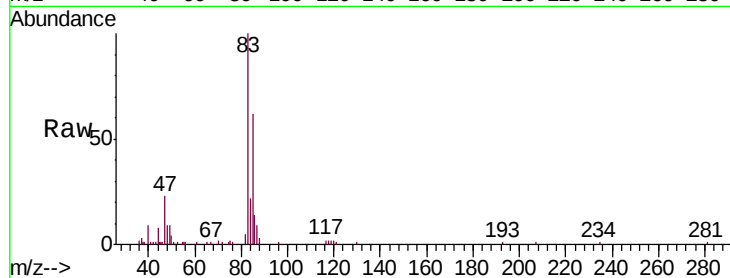
VSTD0.531

Tgt Ion: 83 Resp: 51308

Ion Ratio Lower Upper

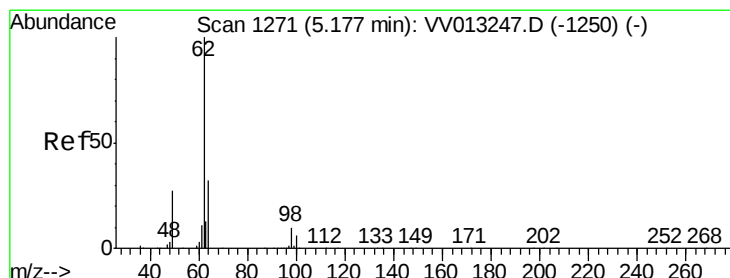
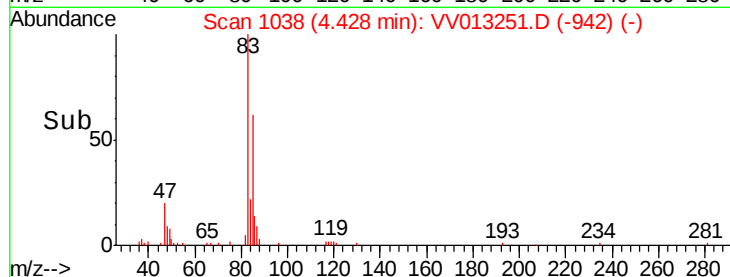
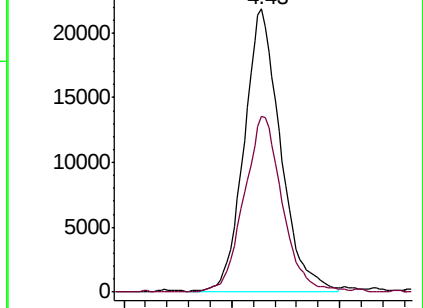
83 100

85 61.9 45.7 84.9



Abundance Ion 83.05 (82.75 to 83.75): VV013247.D (-1013) (-)

Ion 85.00 (84.70 to 85.70): VV013247.D (-1013) (-)



#27

1,2-Dichloroethane

Concen: 0.523 ug/L

RT: 5.18 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VV013251.D

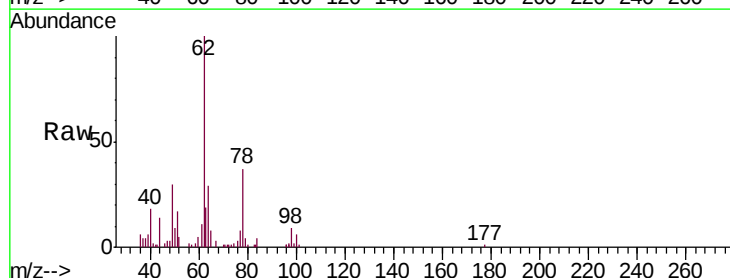
Acq: 21 Oct 2019 18:09

Tgt Ion: 62 Resp: 23926

Ion Ratio Lower Upper

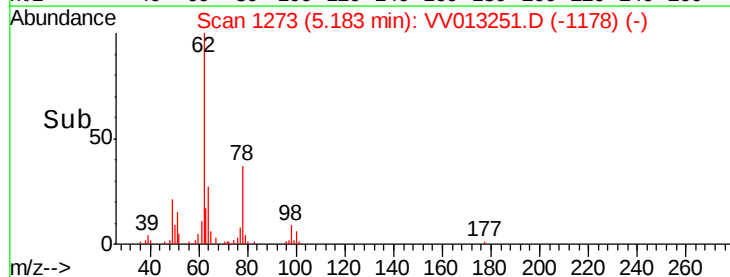
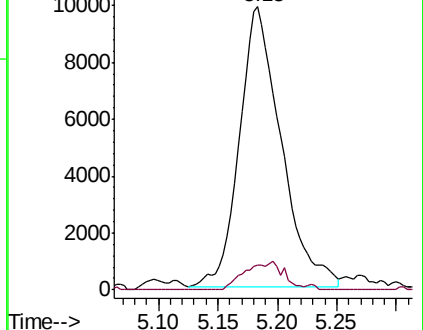
62 100

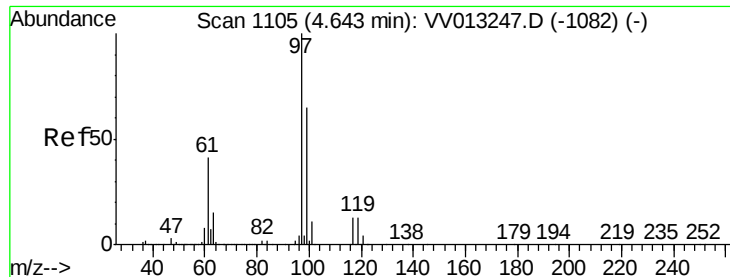
98 8.9 8.3 12.5



Abundance Ion 62.00 (61.70 to 62.70): VV013247.D (-1250) (-)

Ion 98.05 (97.75 to 98.75): VV013247.D (-1250) (-)

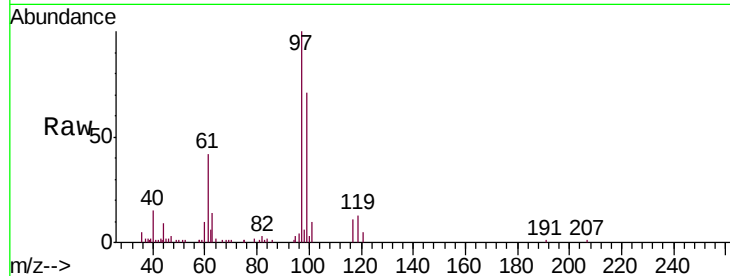




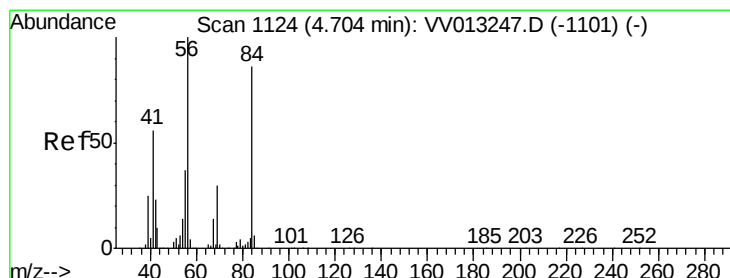
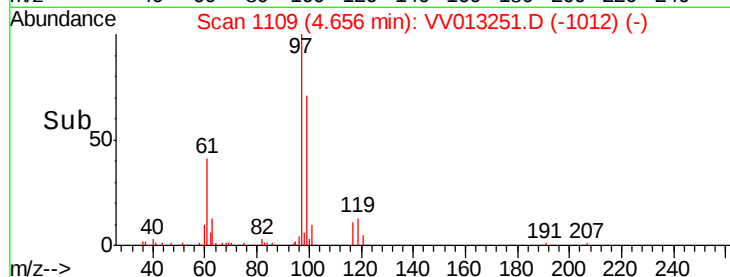
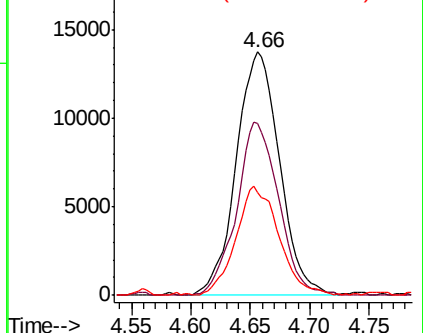
#29
 1,1,1-Trichloroethane
 Concen: 0.487 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.531

Tgt Ion: 97 Resp: 34600
 Ion Ratio Lower Upper
 97 100
 99 69.2 51.7 77.5
 61 44.6 34.3 51.5

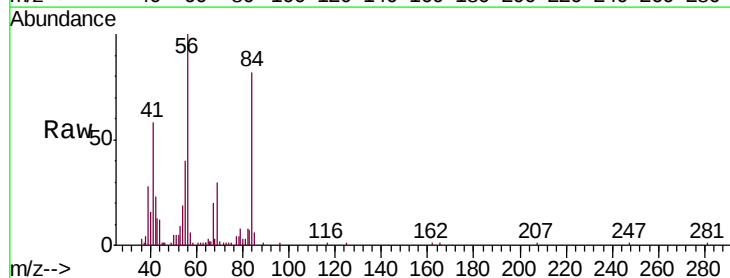


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

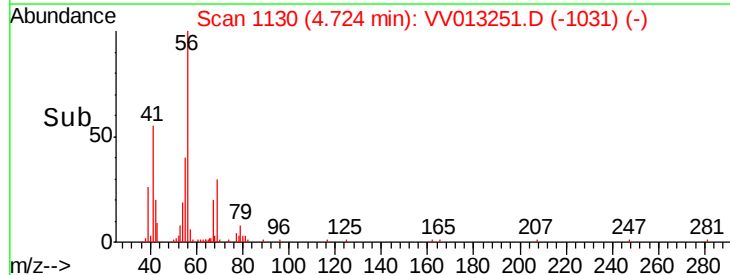
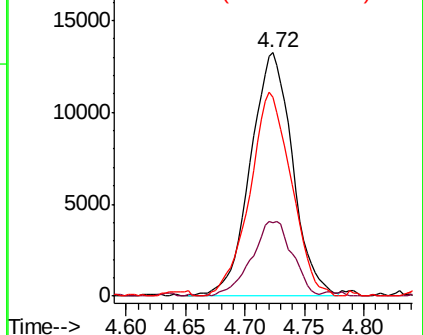


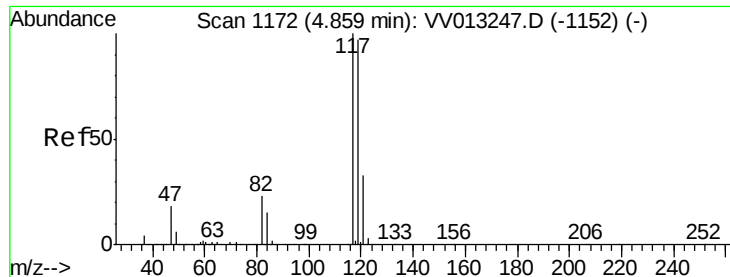
#30
 Cyclohexane
 Concen: 0.446 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. 0.02 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

Tgt Ion: 56 Resp: 32447
 Ion Ratio Lower Upper
 56 100
 69 29.7 24.6 37.0
 84 82.5 71.0 106.6



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 0.487 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.02 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

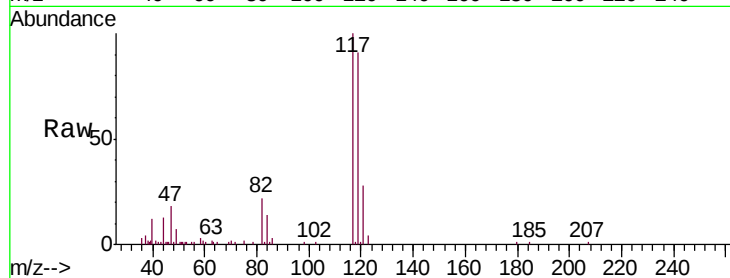
VSTD0.531

Tgt Ion:117 Resp: 30998

Ion Ratio Lower Upper

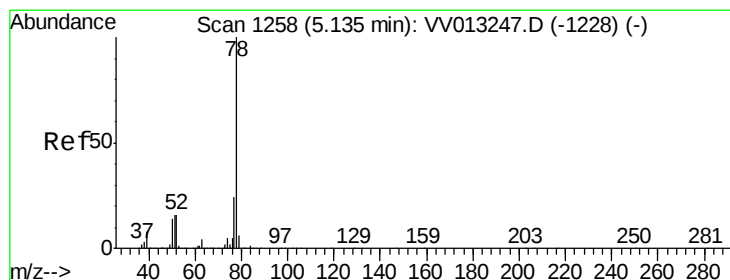
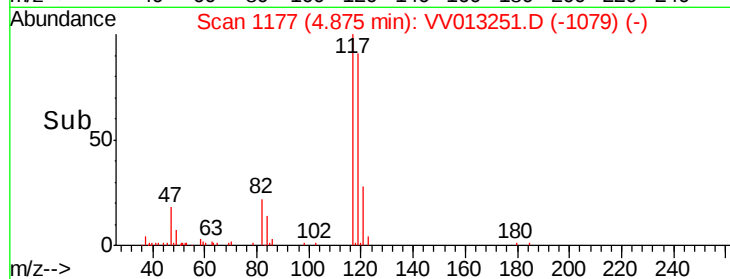
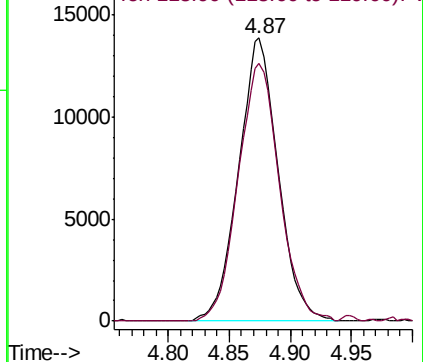
117 100

119 95.2 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.459 ug/L

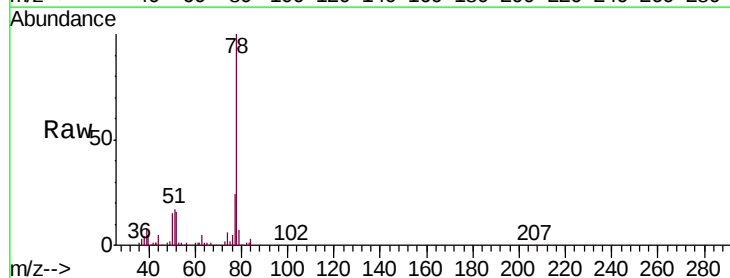
RT: 5.15 min Scan# 1262

Delta R.T. 0.01 min

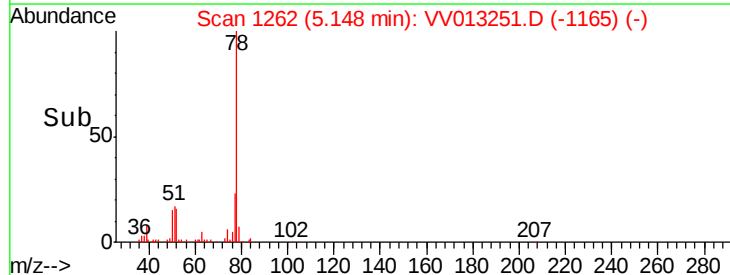
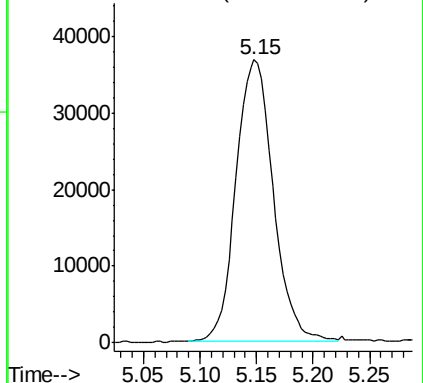
Lab File: VV013251.D

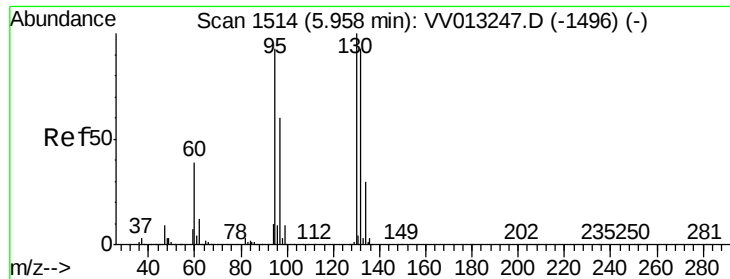
Acq: 21 Oct 2019 18:09

Tgt Ion: 78 Resp: 84075



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 0.519 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.531

Tgt Ion: 95 Resp: 25201

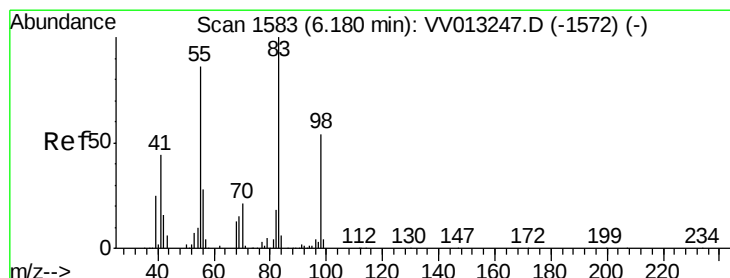
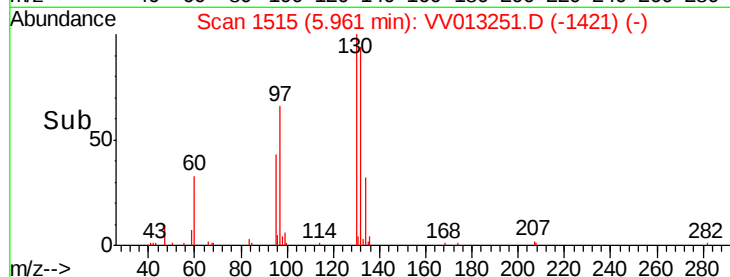
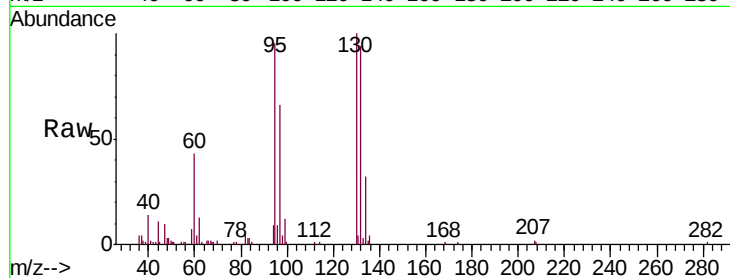
Ion Ratio Lower Upper

95 100

97 69.6 45.2 84.0

132 99.0 70.6 131.2

130 105.0 75.5 140.3



#35

Methylcyclohexane

Concen: 0.437 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.01 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

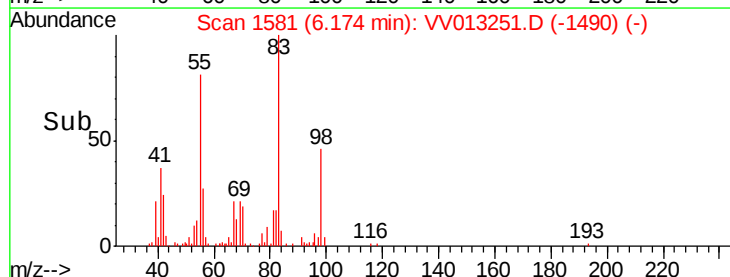
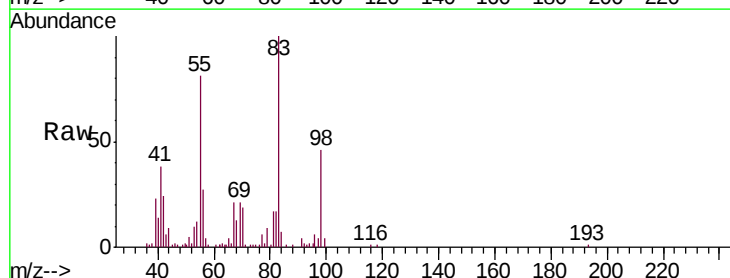
Tgt Ion: 83 Resp: 32685

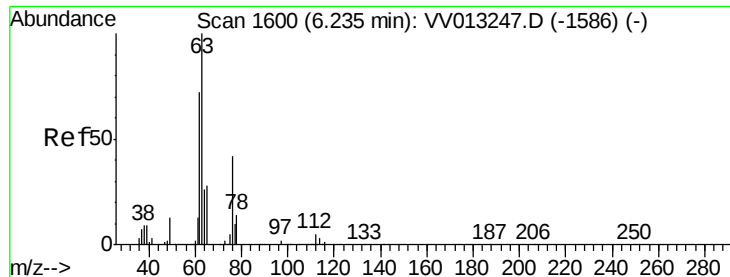
Ion Ratio Lower Upper

83 100

55 81.5 62.4 93.6

98 50.1 39.2 58.8





#37

1,2-Dichloropropane

Concen: 0.469 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. -0.01 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

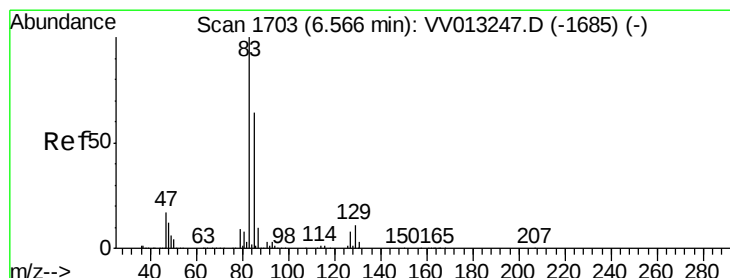
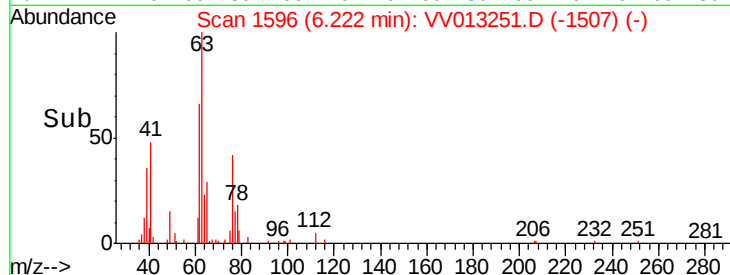
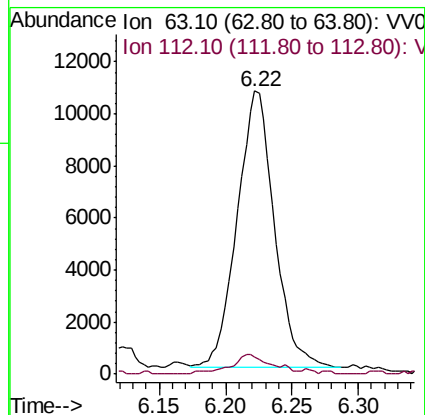
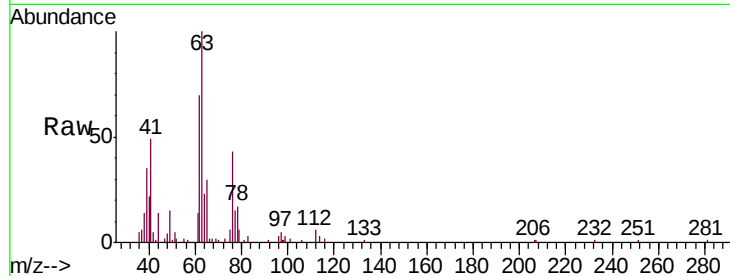
VSTD0.531

Tgt Ion: 63 Resp: 20707

Ion Ratio Lower Upper

63 100

112 7.3 4.1 6.1#



#38

Bromodichloromethane

Concen: 0.517 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. -0.01 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

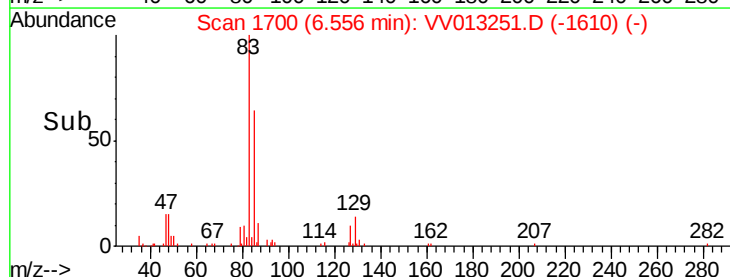
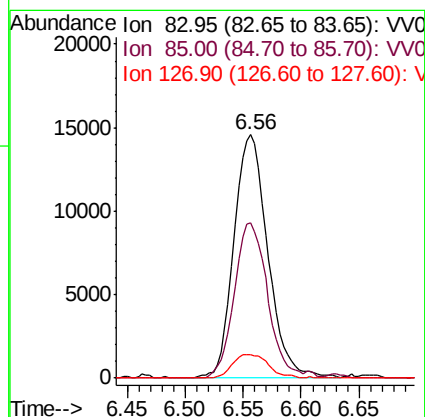
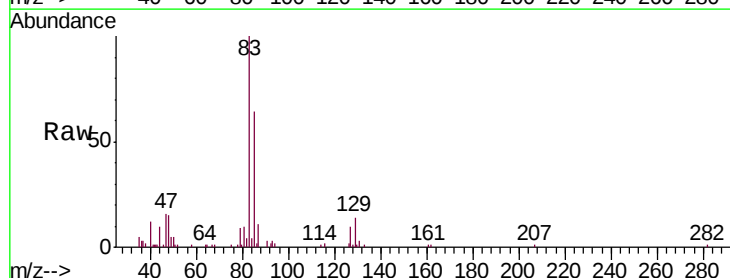
Tgt Ion: 83 Resp: 29544

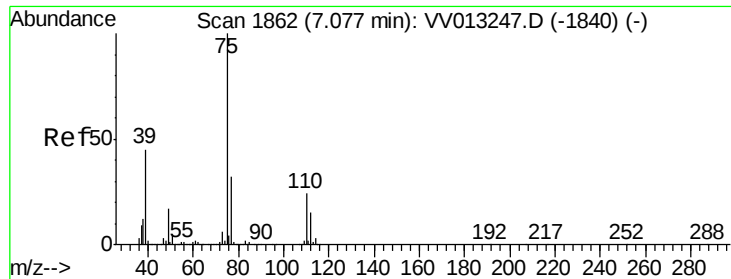
Ion Ratio Lower Upper

83 100

85 63.6 44.4 82.5

127 9.6 6.6 10.0

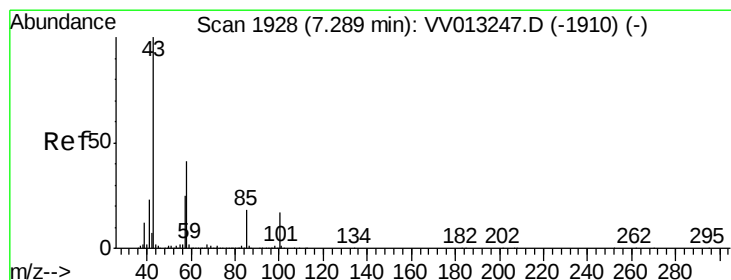
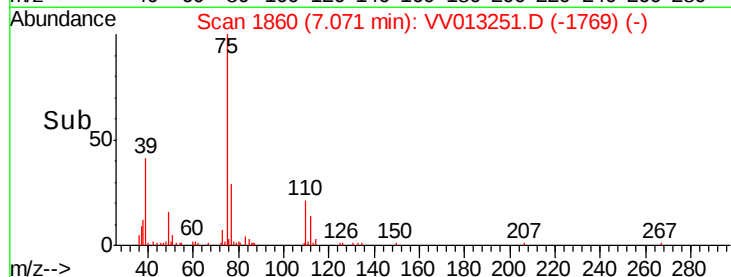
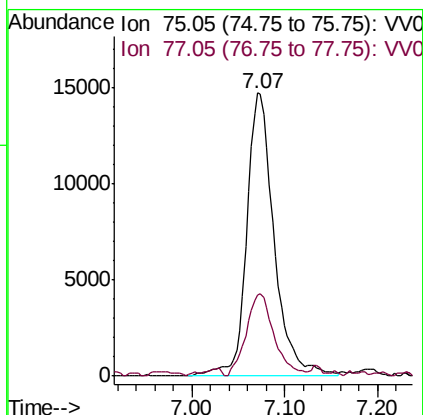
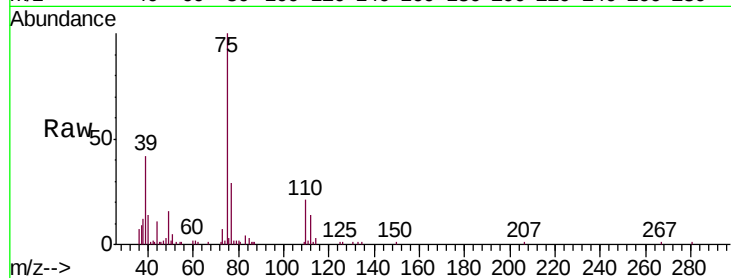




#39
 cis-1,3-Dichloropropene
 Concen: 0.492 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.01 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

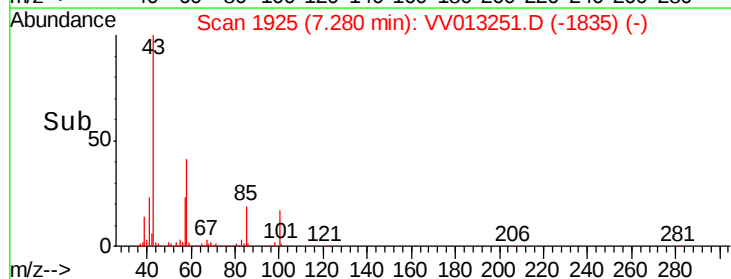
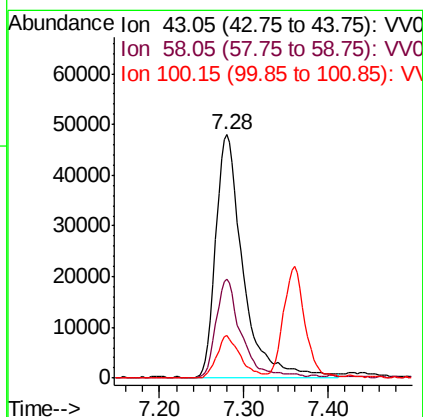
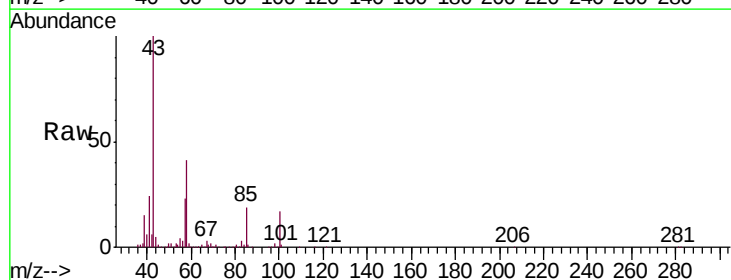
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.531

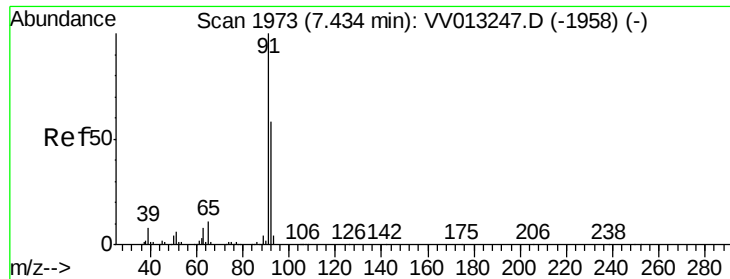
Tgt Ion: 75 Resp: 30244
 Ion Ratio Lower Upper
 75 100
 77 28.6 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 4.936 ug/L
 RT: 7.28 min Scan# 1925
 Delta R.T. -0.01 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

Tgt Ion: 43 Resp: 108918
 Ion Ratio Lower Upper
 43 100
 58 37.1 30.7 46.1
 100 15.0 12.4 18.6





#42

Toluene

Concen: 0.447 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

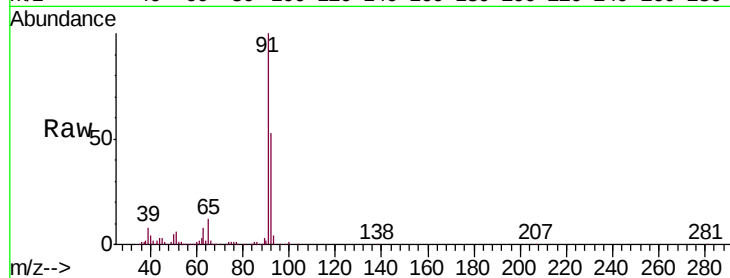
VSTD0.531

Tgt Ion: 91 Resp: 85190

Ion Ratio Lower Upper

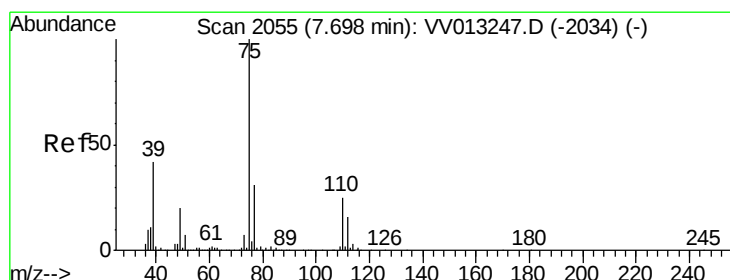
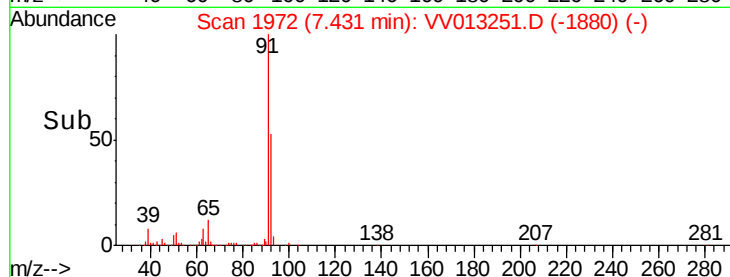
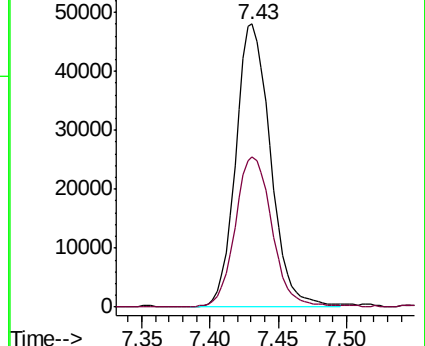
91 100

92 53.2 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.472 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV013251.D

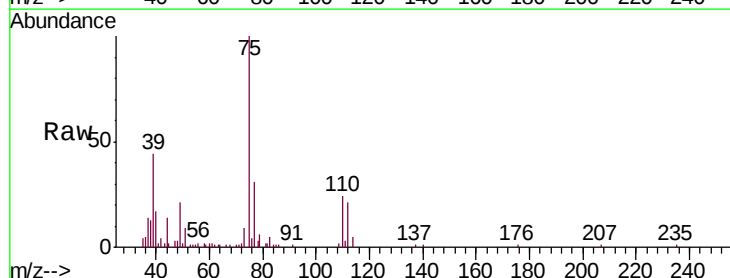
Acq: 21 Oct 2019 18:09

Tgt Ion: 75 Resp: 22280

Ion Ratio Lower Upper

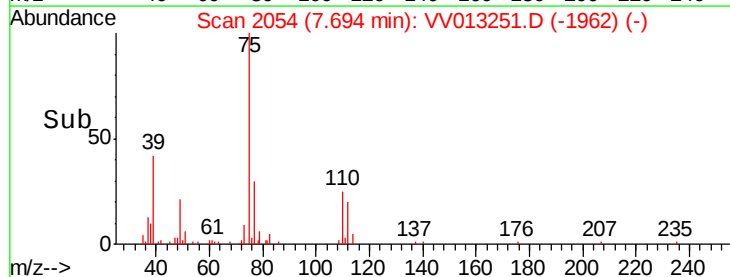
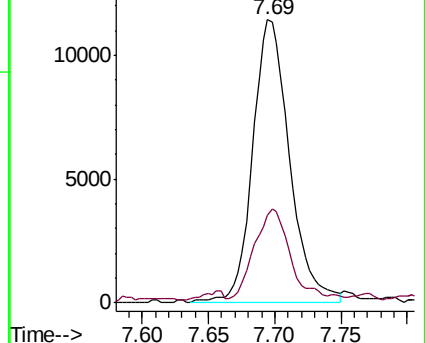
75 100

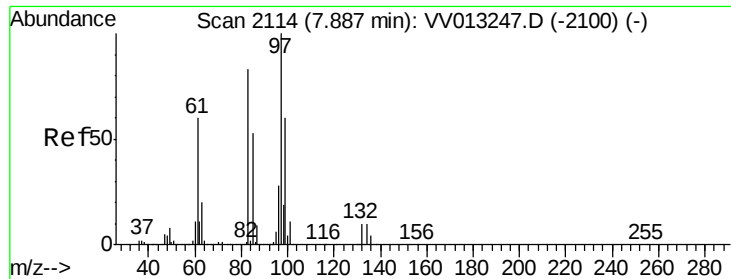
77 30.8 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

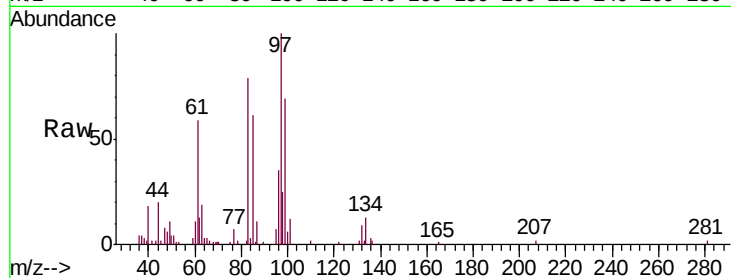




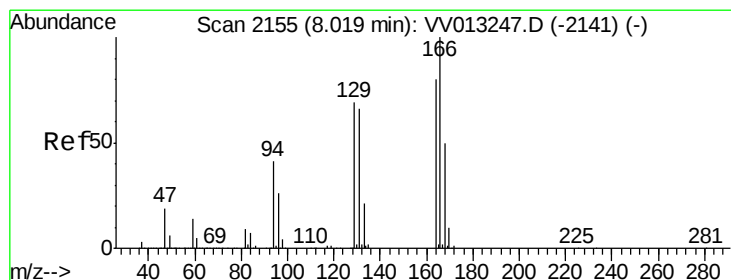
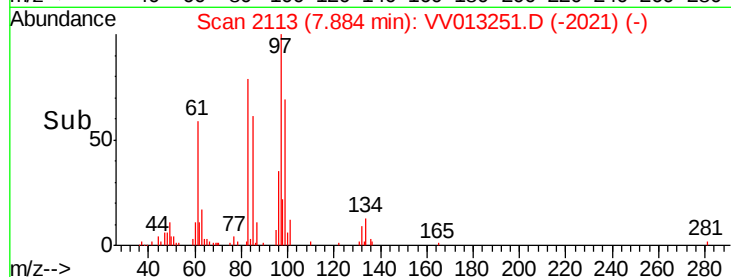
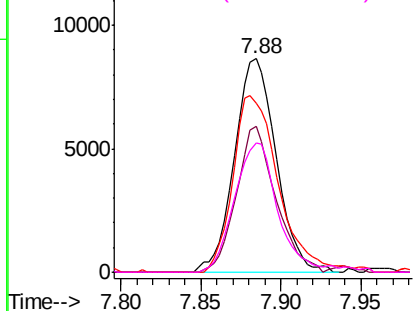
#45
 1,1,2-Trichloroethane
 Concen: 0.497 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD0.531

Tgt Ion:	97	Resp:	15363
Ion	Ratio	Lower	Upper
97	100		
99	68.5	42.2	78.4
83	78.9	58.4	108.4
85	60.5	37.0	68.6

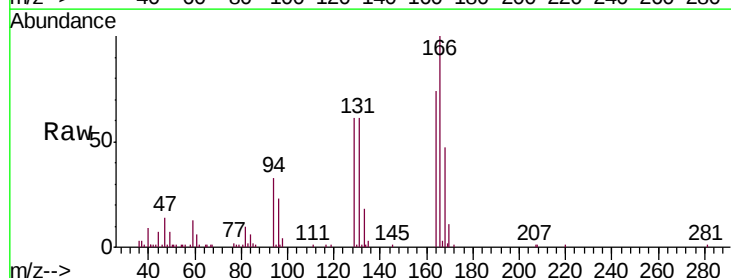


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

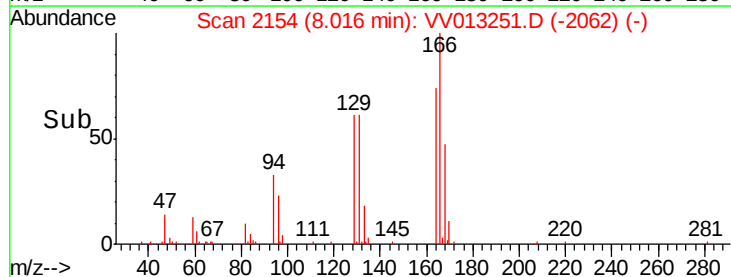
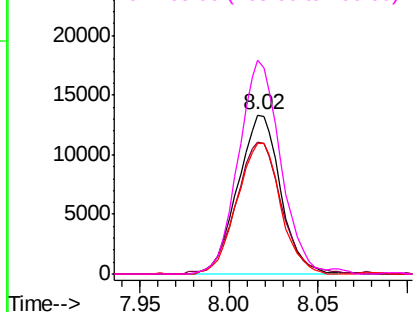


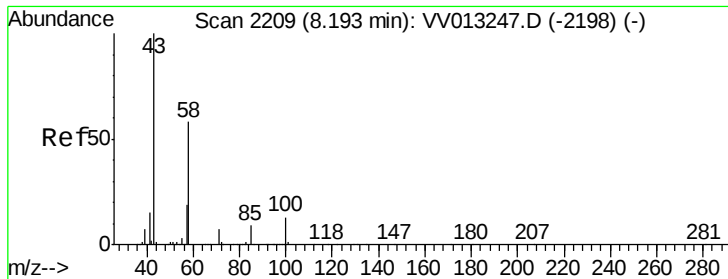
#47
 Tetrachloroethene
 Concen: 0.501 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

Tgt Ion:	164	Resp:	22175
Ion	Ratio	Lower	Upper
164	100		
129	82.5	61.0	113.2
131	81.8	57.5	106.9
166	134.3	87.8	163.0



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

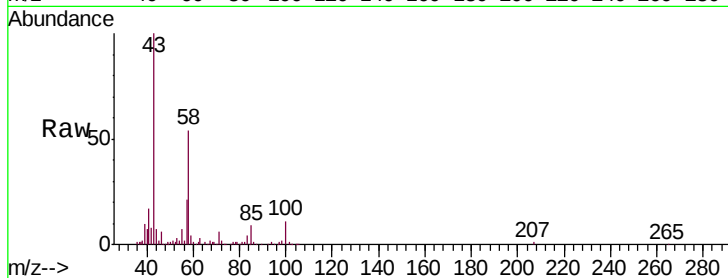




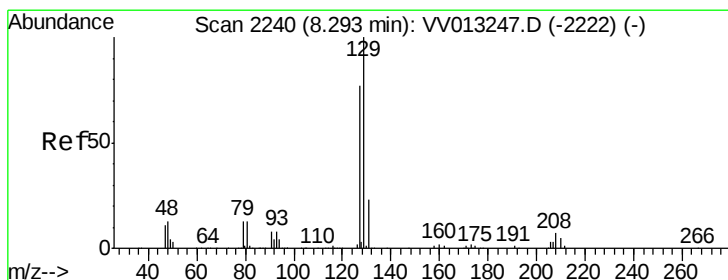
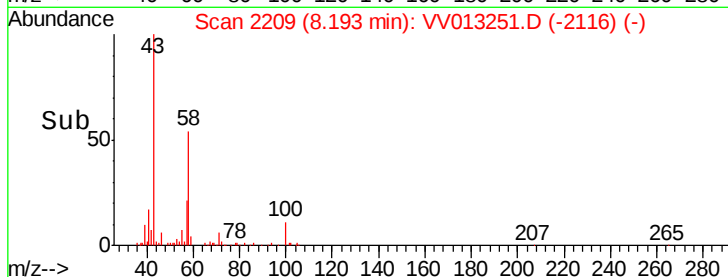
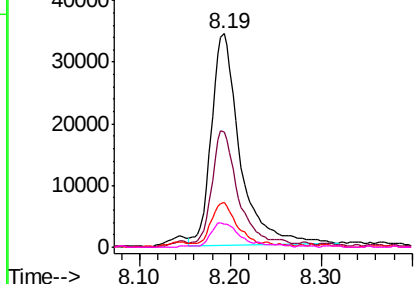
#48
2-Hexanone
Concen: 4.813 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VV013251.D
Acq: 21 Oct 2019 18:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Tgt Ion:	43	Resp:	75236
Ion	Ratio	Lower	Upper
43	100		
58	46.5	45.1	67.7
57	17.2	15.5	23.3
100	10.3	10.2	15.2

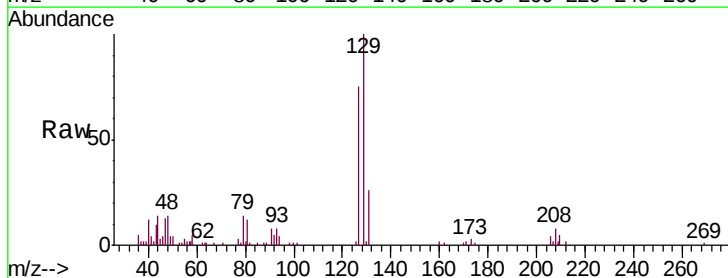


Abundance Ion 43.05 (42.75 to 43.75): VV013251.D (-2116) (-)
Ion 58.05 (57.75 to 58.75): VV013251.D (-2116) (-)
Ion 57.20 (56.90 to 57.90): VV013251.D (-2116) (-)
Ion 100.15 (99.85 to 100.85): VV013251.D (-2116) (-)

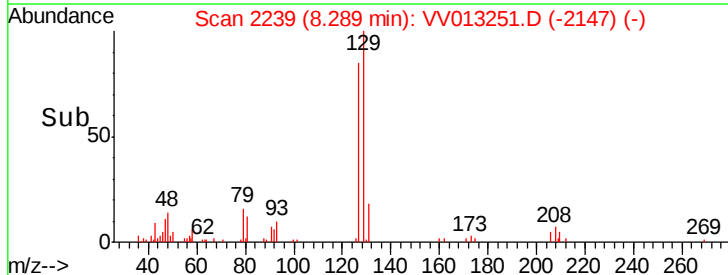
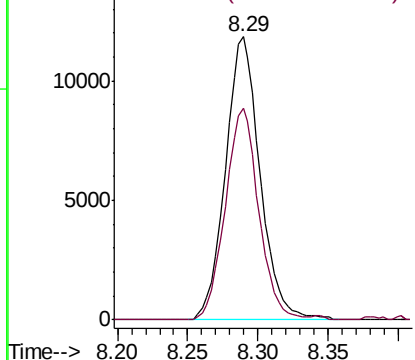


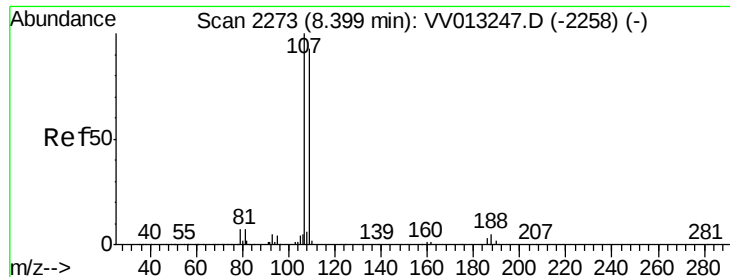
#49
Dibromochloromethane
Concen: 0.530 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV013251.D
Acq: 21 Oct 2019 18:09

Tgt Ion:	129	Resp:	20336
Ion	Ratio	Lower	Upper
129	100		
127	74.8	54.1	100.5



Abundance Ion 128.95 (128.65 to 129.65): VV013251.D (-2147) (-)
Ion 126.90 (126.60 to 127.60): VV013251.D (-2147) (-)

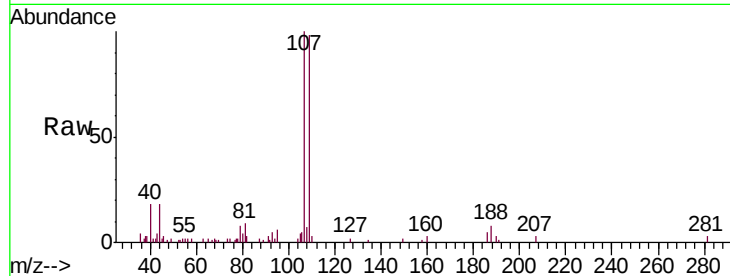




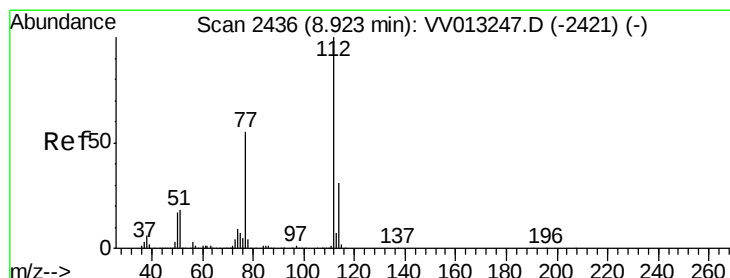
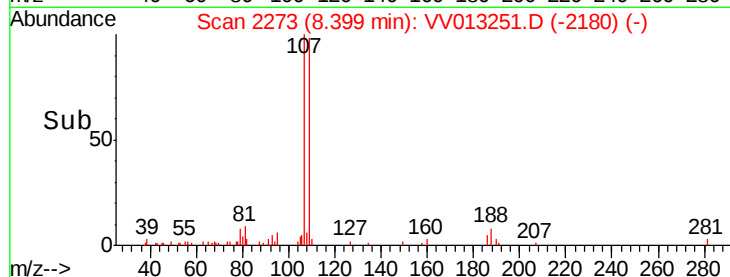
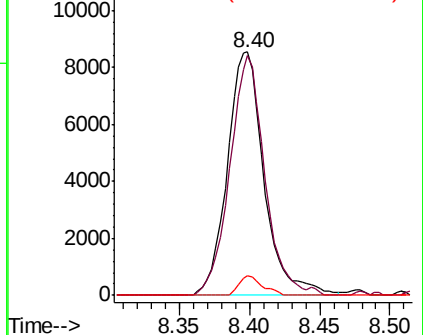
#50
1,2-Dibromoethane
Concen: 0.539 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV013251.D
Acq: 21 Oct 2019 18:09

Instrument :
MSVOA_V
ClientSampled :
VSTD0.531

Tgt Ion:107 Resp: 15530
Ion Ratio Lower Upper
107 100
109 98.3 65.5 121.6
188 8.3 3.7 5.5#

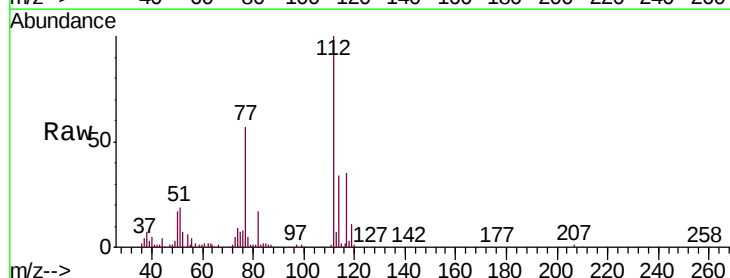


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

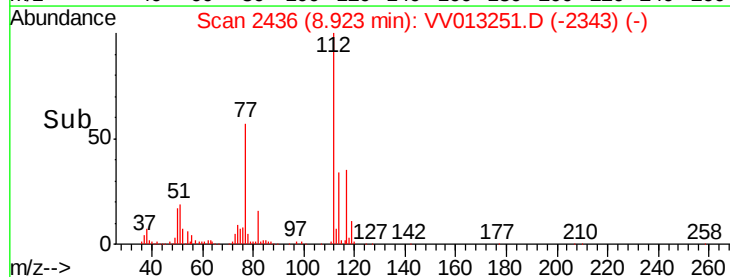
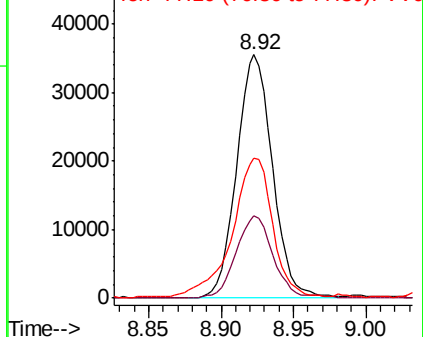


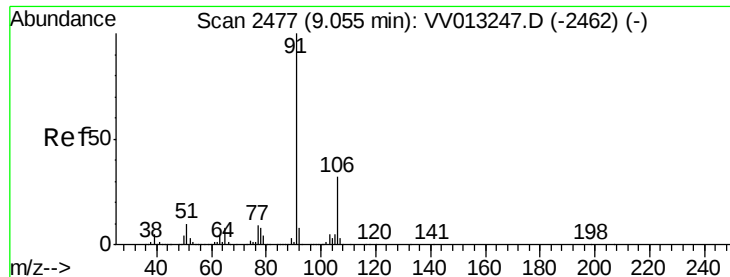
#51
Chlorobenzene
Concen: 0.490 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV013251.D
Acq: 21 Oct 2019 18:09

Tgt Ion:112 Resp: 60969
Ion Ratio Lower Upper
112 100
114 34.0 21.8 40.6
77 57.3 44.4 66.6



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): VV0





#52

Ethylbenzene

Concen: 0.435 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

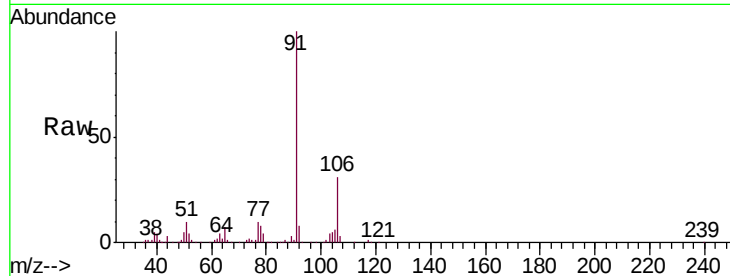
VSTD0.531

Tgt Ion: 91 Resp: 86478

Ion Ratio Lower Upper

91 100

106 30.6 22.4 41.6



Abundance Ion 91.15 (90.85 to 91.85): VV013247.D (-2462) (-)

Ion 106.15 (105.85 to 106.85): VV013247.D (-2462) (-)

60000

50000

40000

30000

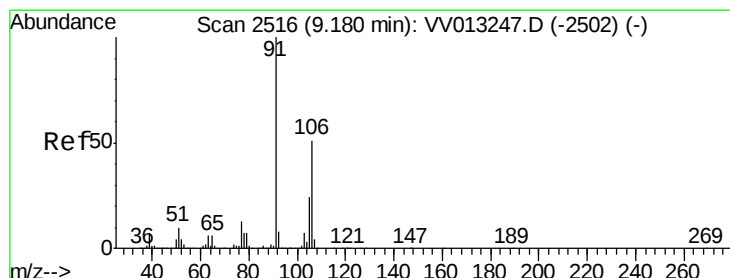
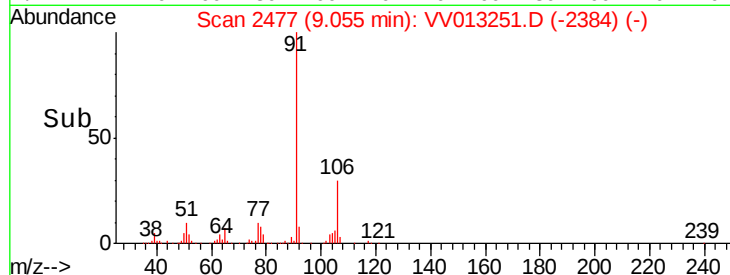
20000

10000

0

9.00 9.05 9.10 9.15

Time-->



#53

m,p-xylene

Concen: 0.390 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013251.D

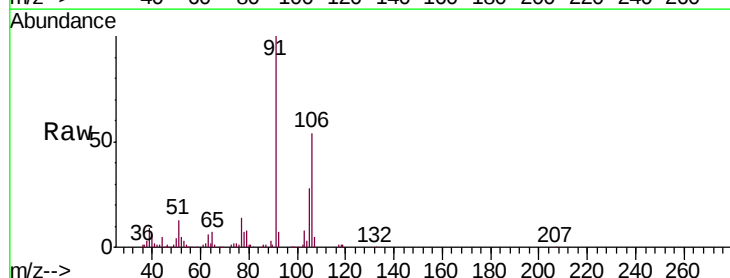
Acq: 21 Oct 2019 18:09

Tgt Ion: 106 Resp: 30030

Ion Ratio Lower Upper

106 100

91 184.9 137.8 255.8



Abundance Ion 106.15 (105.85 to 106.85): VV013247.D (-2502) (-)

Ion 91.15 (90.85 to 91.85): VV013247.D (-2502) (-)

40000

30000

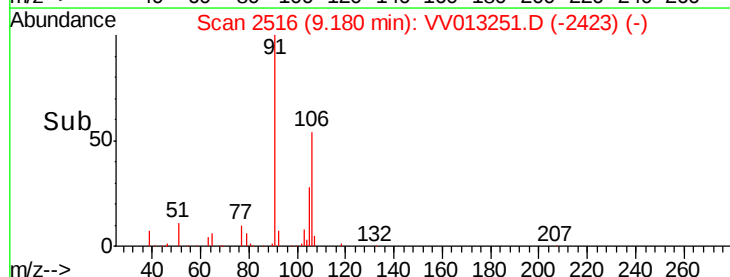
20000

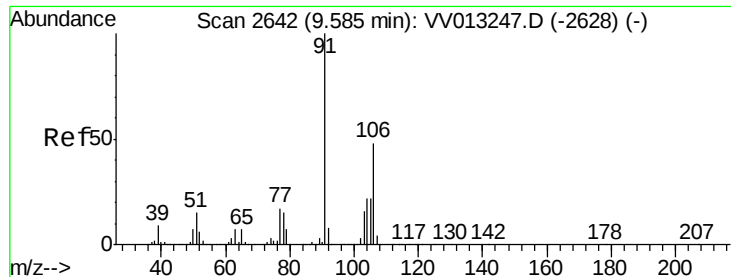
10000

0

9.15 9.20 9.25

Time-->





#54

o-xylene

Concen: 0.413 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

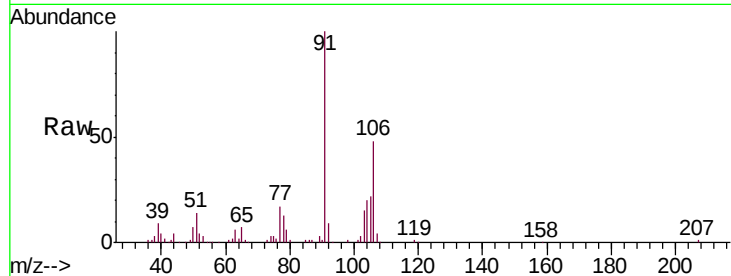
VSTD0.531

Tgt Ion:106 Resp: 29788

Ion Ratio Lower Upper

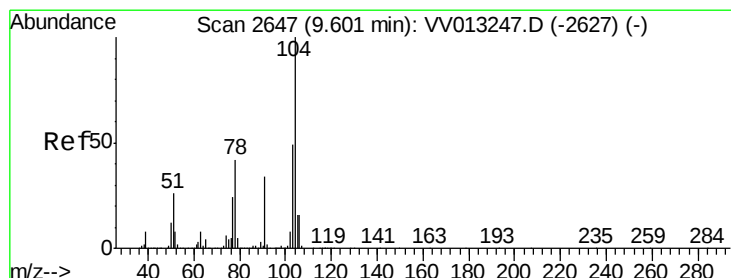
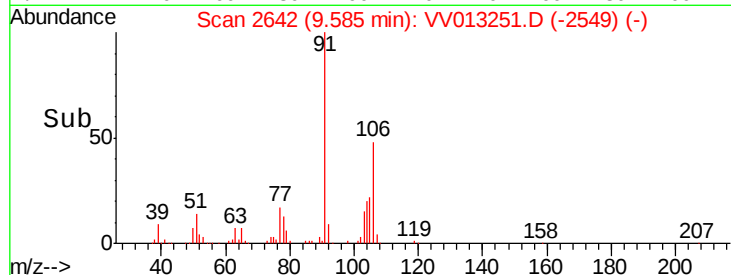
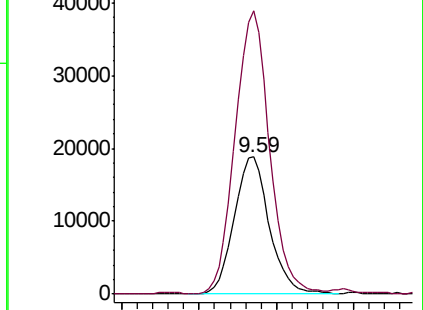
106 100

91 206.4 147.0 273.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.395 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV013251.D

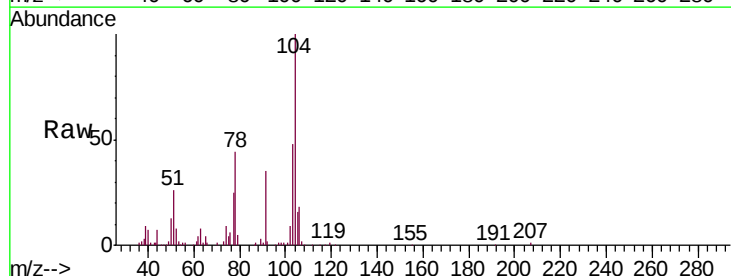
Acq: 21 Oct 2019 18:09

Tgt Ion:104 Resp: 48477

Ion Ratio Lower Upper

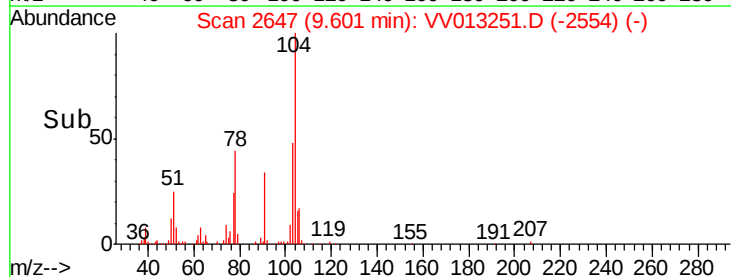
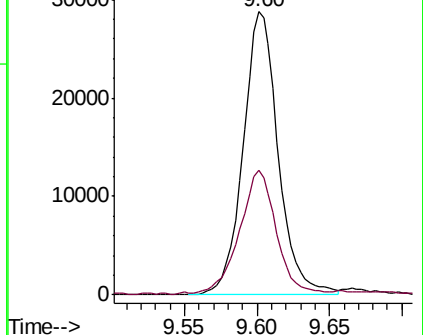
104 100

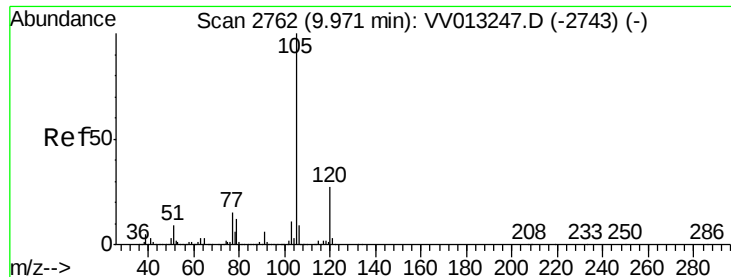
78 43.9 29.6 55.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 0.393 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.531

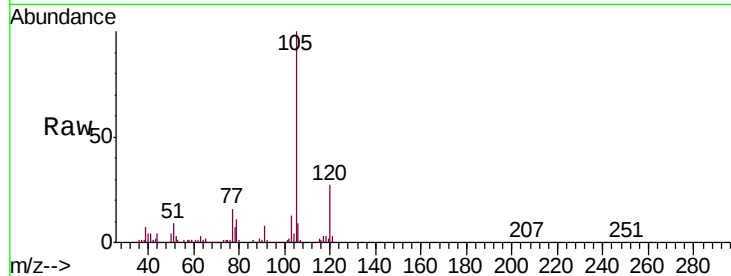
Tgt Ion:105 Resp: 75330

Ion Ratio Lower Upper

105 100

120 26.3 21.8 32.6

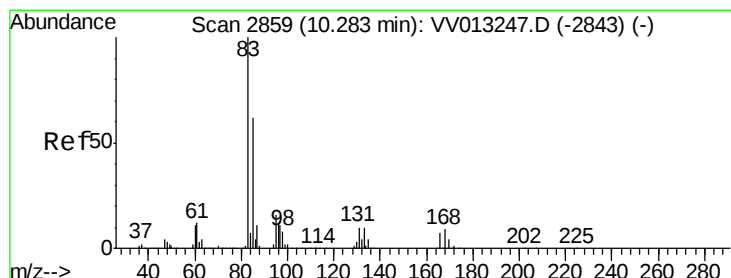
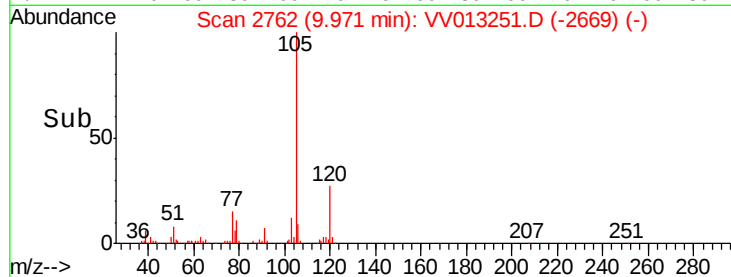
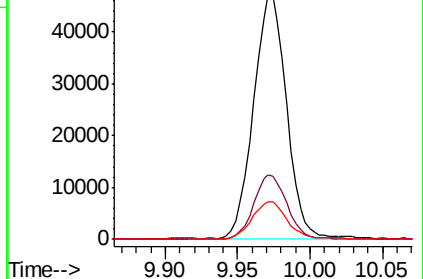
77 16.5 12.0 18.0



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: 0.539 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

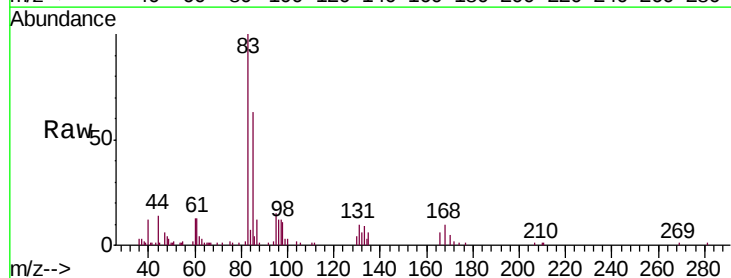
Tgt Ion: 83 Resp: 18766

Ion Ratio Lower Upper

83 100

85 63.3 43.3 80.3

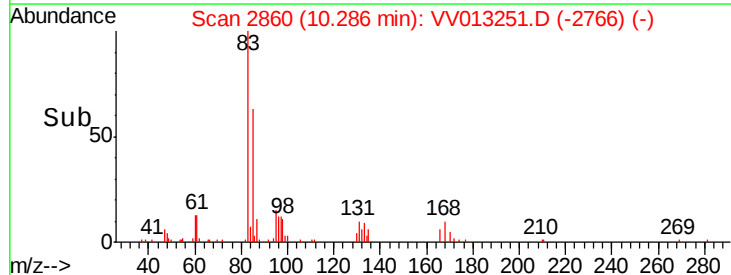
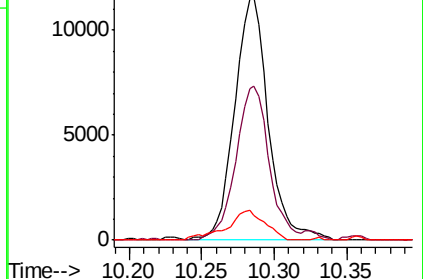
131 10.3 8.3 12.5

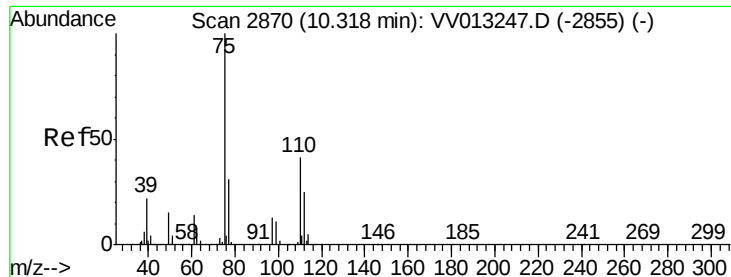


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

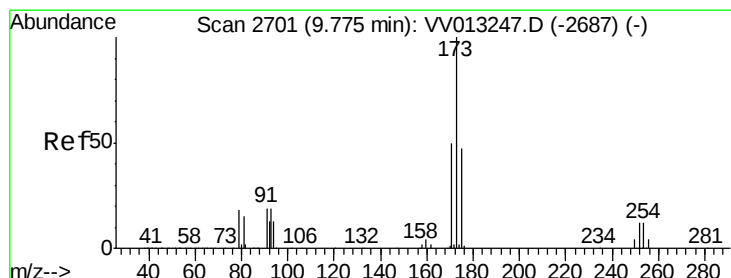
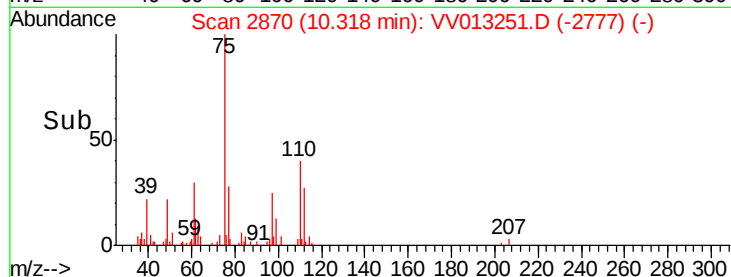
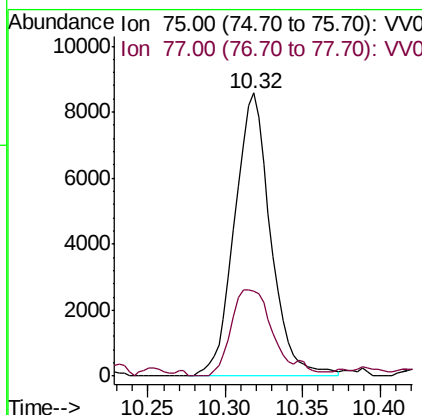
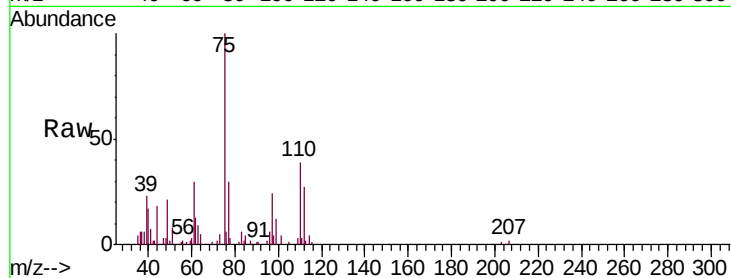




#59
 1,2,3-Trichloropropane
 Concen: 0.530 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

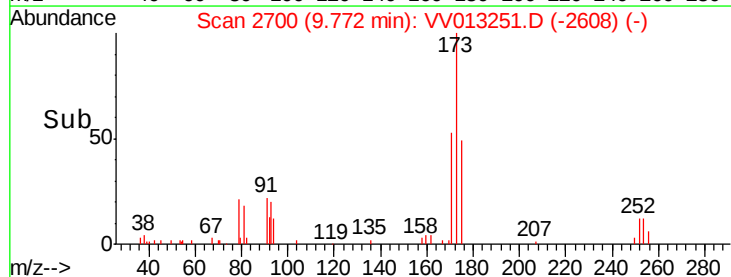
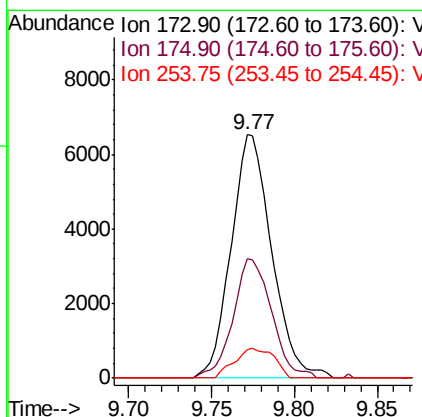
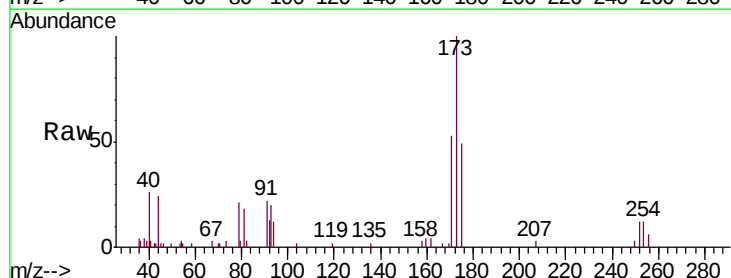
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.531

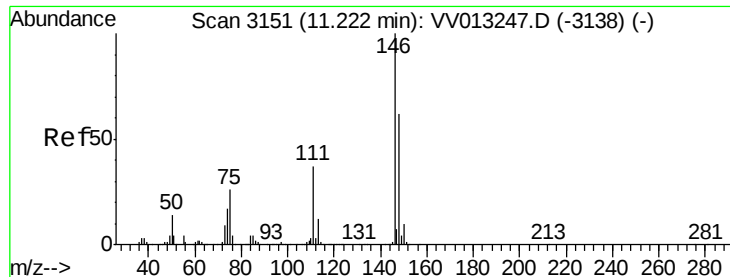
Tgt Ion: 75 Resp: 13863
 Ion Ratio Lower Upper
 75 100
 77 34.0 24.7 37.1



#61
 Bromoform
 Concen: 0.560 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. -0.00 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

Tgt Ion: 173 Resp: 11115
 Ion Ratio Lower Upper
 173 100
 175 46.6 38.8 58.2
 254 12.0 9.8 14.8





#62

1,3-Dichlorobenzene

Concen: 0.530 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

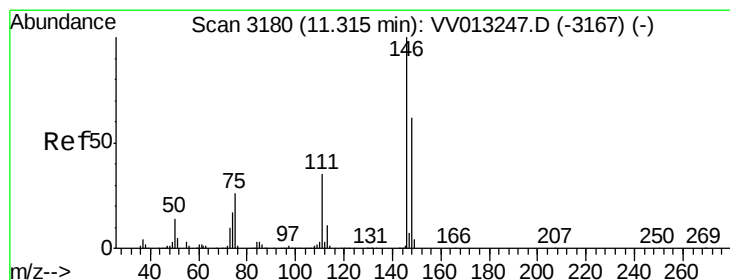
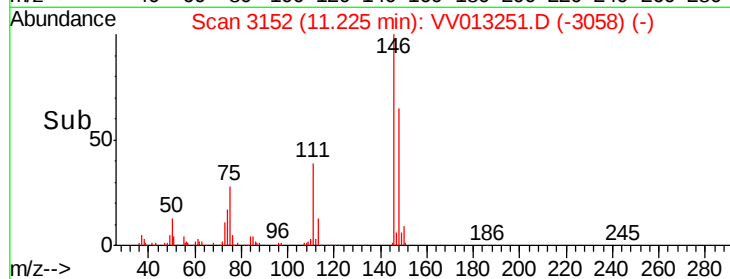
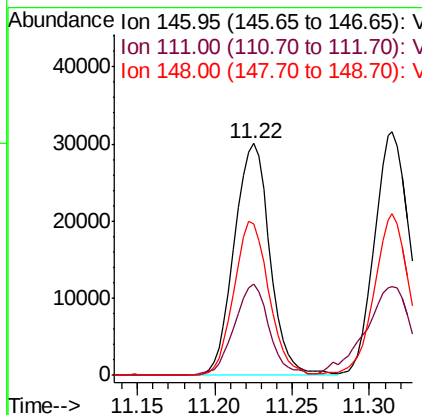
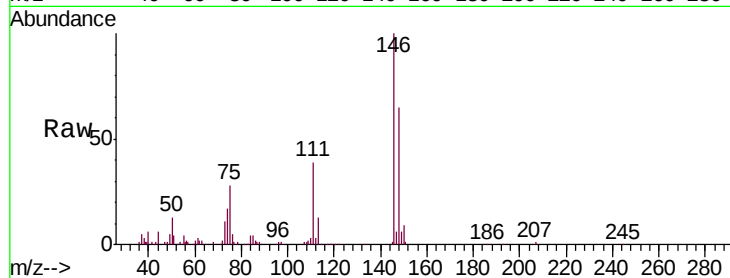
Instrument :

MSVOA_V

ClientSampleId :

VSTD0.531

Tgt Ion:	146	Resp:	48297
Ion	Ratio	Lower	Upper
146	100		
111	39.2	25.8	47.8
148	65.1	43.8	81.3



#63

1,4-Dichlorobenzene

Concen: 0.550 ug/L

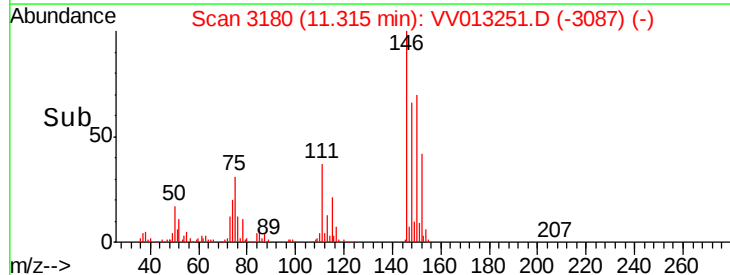
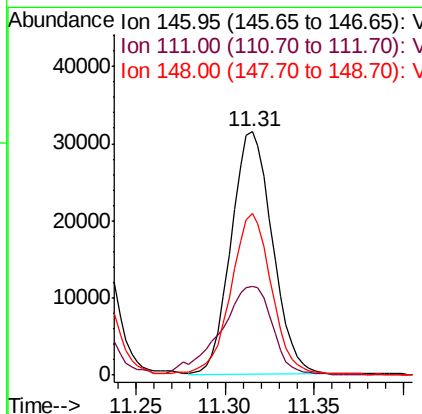
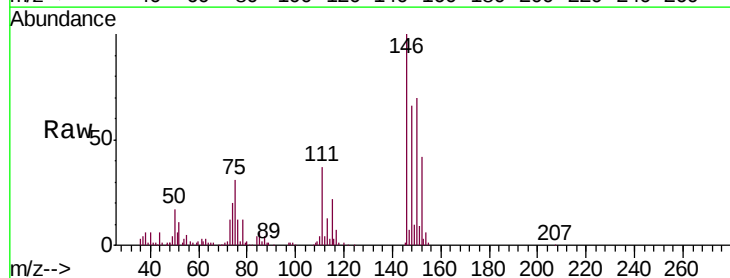
RT: 11.31 min Scan# 3180

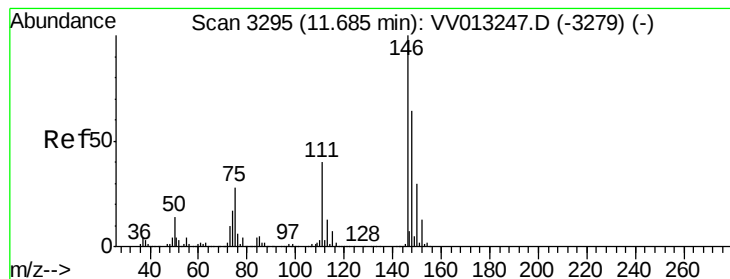
Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Tgt Ion:	146	Resp:	50398
Ion	Ratio	Lower	Upper
146	100		
111	36.7	24.6	45.6
148	66.2	43.3	80.5





#65

1,2-Dichlorobenzene

Concen: 0.541 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.531

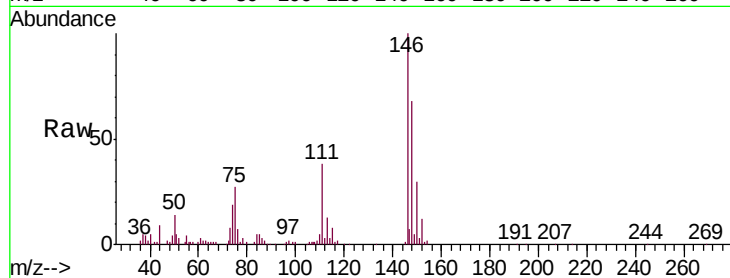
Tgt Ion:146 Resp: 45483

Ion Ratio Lower Upper

146 100

111 37.9 31.8 47.6

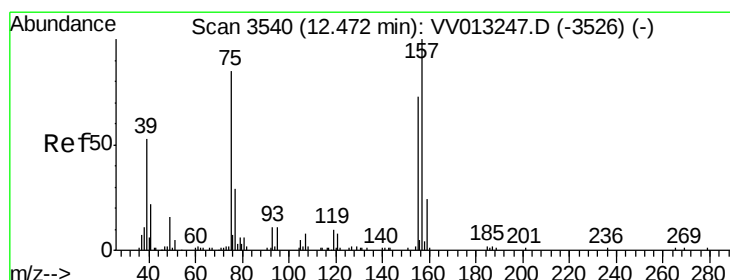
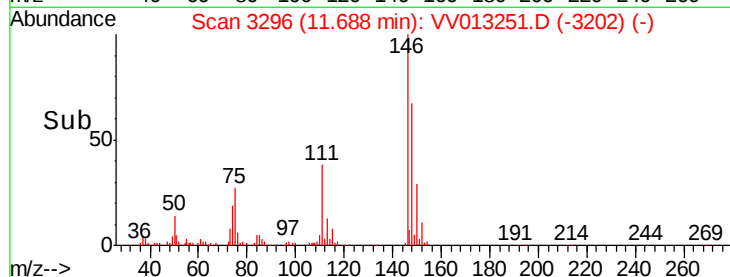
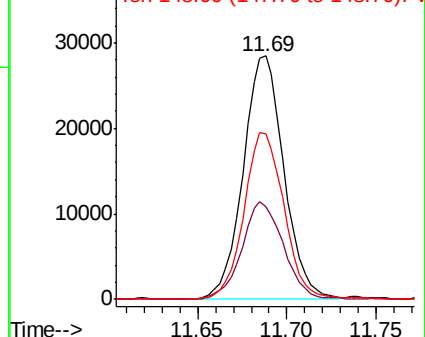
148 67.9 51.0 76.6



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: 0.649 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

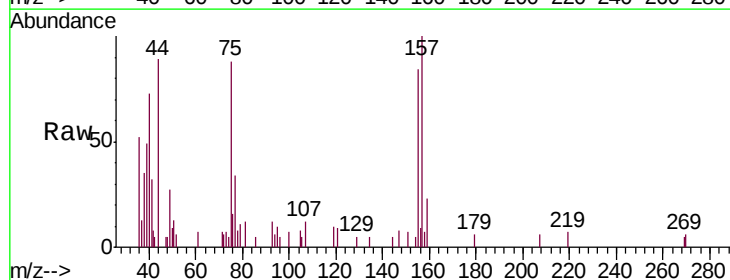
Tgt Ion: 75 Resp: 3064

Ion Ratio Lower Upper

75 100

155 96.2 69.3 103.9

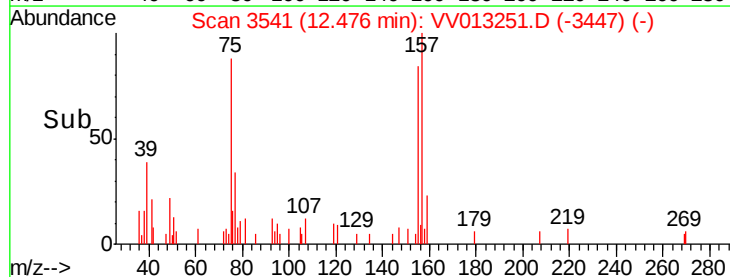
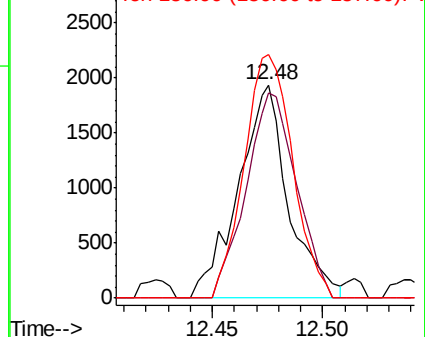
157 114.3 94.3 141.5

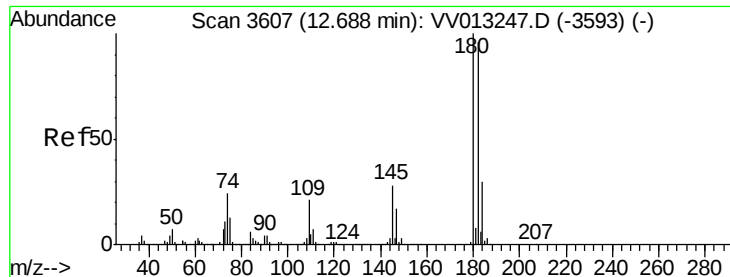


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

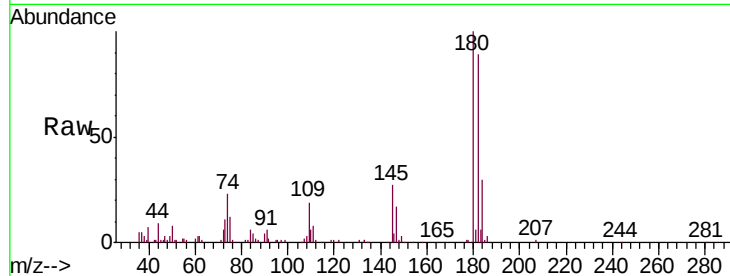




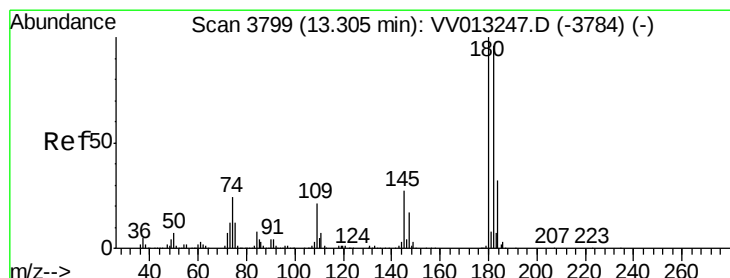
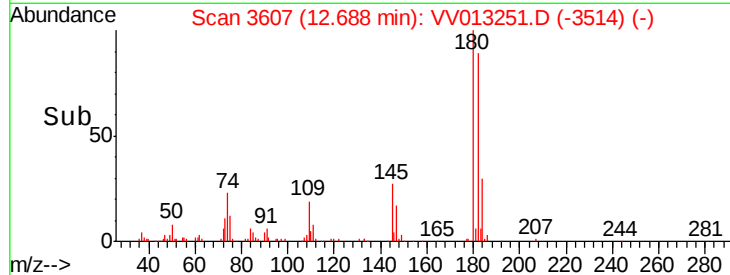
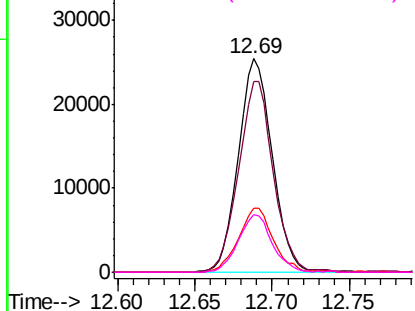
#67
 1,3,5-Trichlorobenzene
 Concen: 0.584 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.531

Tgt Ion:180 Resp: 38831
 Ion Ratio Lower Upper
 180 100
 182 91.7 76.2 114.2
 184 30.8 24.0 36.0
 145 26.7 21.8 32.8

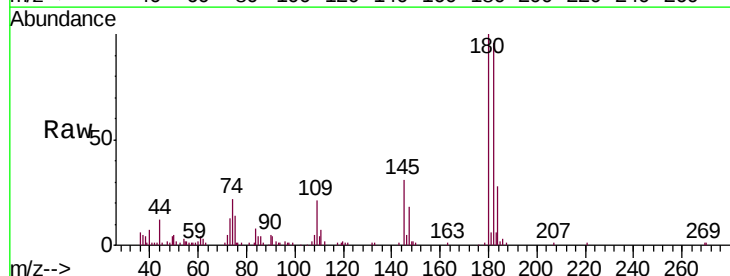


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

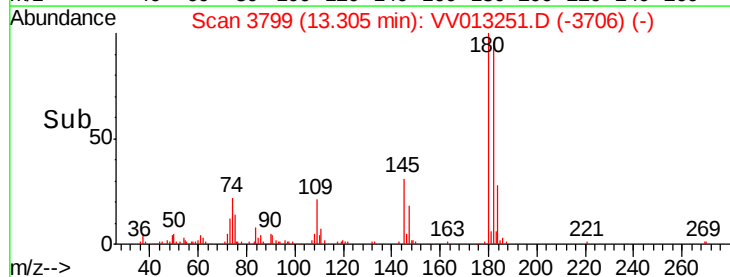
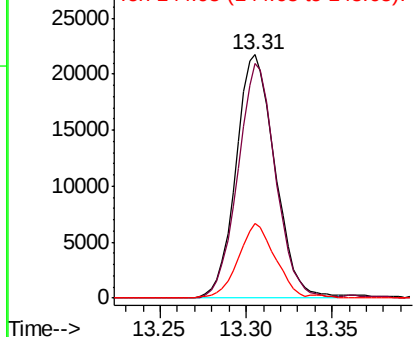


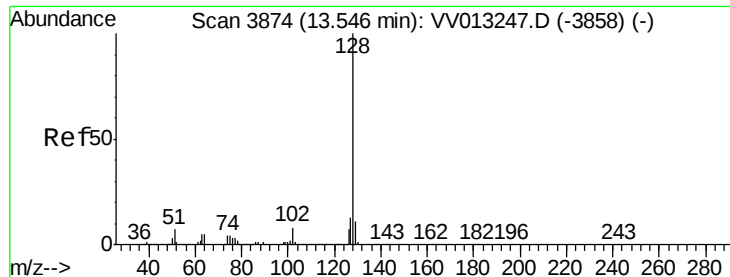
#68
 1,2,4-trichlorobenzene
 Concen: 0.601 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013251.D
 Acq: 21 Oct 2019 18:09

Tgt Ion:180 Resp: 34337
 Ion Ratio Lower Upper
 180 100
 182 92.7 76.7 115.1
 145 28.9 22.1 33.1



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: 0.545 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.531

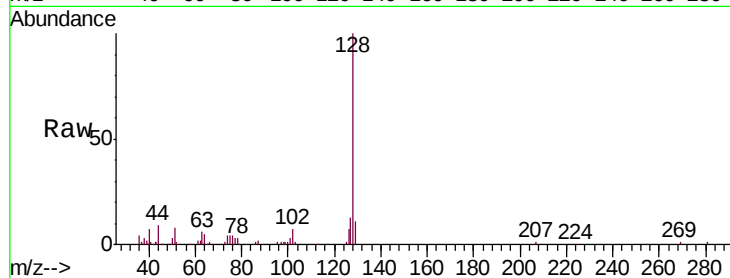
Tgt Ion:128 Resp: 42568

Ion Ratio Lower Upper

128 100

129 11.9 9.0 13.6

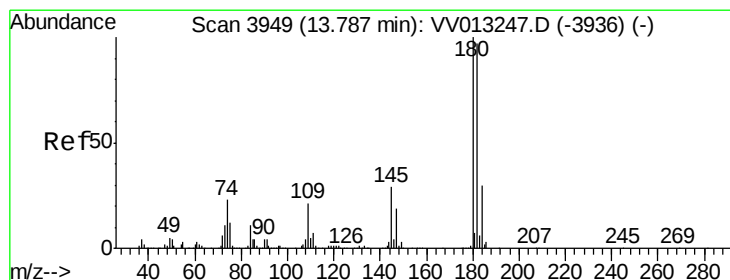
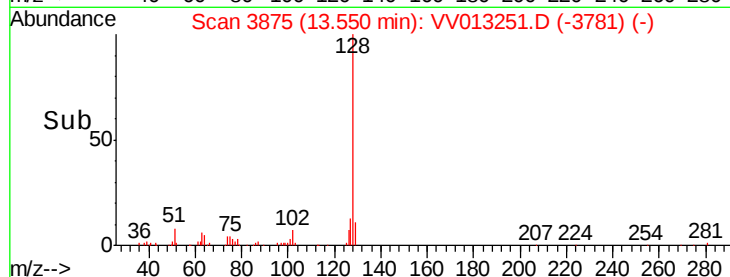
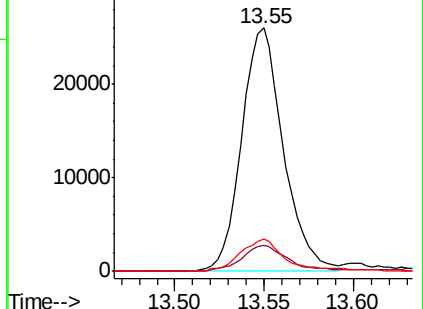
127 13.2 10.4 15.6



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: 0.565 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV013251.D

Acq: 21 Oct 2019 18:09

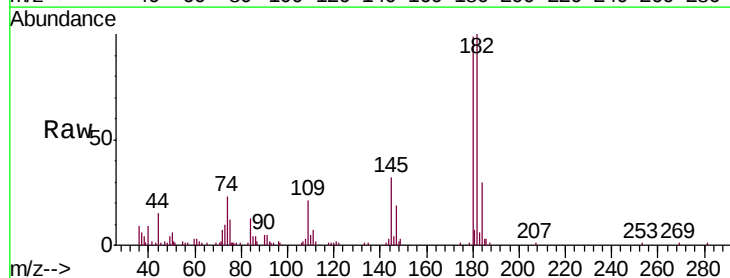
Tgt Ion:180 Resp: 30324

Ion Ratio Lower Upper

180 100

182 100.0 76.5 114.7

145 30.1 23.5 35.3



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

