

Data File : VV010851.D
Acq On : 13 May 2019 23:23
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02596

Quant Time: May 14 02:25:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Tue May 14 01:59:26 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	146327	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	146642	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	64024	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	49494	26.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	106.20%
7) Chloroethane-d5	1.55	69	27738	22.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.32%
10) 1,1-Dichloroethene-d2	2.11	63	89730	25.44	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	101.76%
20) 2-Butanone-d5	3.93	46	37286	63.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	127.14%
24) Chloroform-d	4.39	84	99049	23.45	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.80%
26) 1,2-Dichloroethane-d4	5.07	65	60018	24.99	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.96%
29) Benzene-d6	5.09	84	212471	26.18	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.72%
33) 1,2-Dichloropropane-d6	6.11	67	65522	25.30	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.20%
37) Toluene-d8	7.36	98	197349	25.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.20%
38) trans-1,3-Dichloropropene-	7.66	79	28515	25.24	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.96%
39) 2-Hexanone-d5	8.13	63	27312	55.66	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.32%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	61538	25.62	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.48%
61) 1,2-Dichlorobenzene-d4	11.67	152	64386	24.08	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.32%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.13	85	38800	23.900	ug/L	100
3) Chloromethane	1.24	50	46227	23.776	ug/L	99
5) Vinyl chloride	1.31	62	48757	23.293	ug/L	97
6) Bromomethane	1.50	94	13669	28.134	ug/L	98
8) Chloroethane	1.57	64	22393	20.684	ug/L	96
9) Trichlorofluoromethane	1.75	101	71215	23.767	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.12	101	42910	23.742	ug/L	99
12) 1,1-Dichloroethene	2.12	96	39505	23.428	ug/L	86
13) Acetone	2.18	43	28092	47.023	ug/L	96
14) Carbon disulfide	2.30	76	114458	22.535	ug/L	99
15) Methyl Acetate	2.45	43	31391	25.228	ug/L	99
16) Methylene chloride	2.52	84	50756	21.493	ug/L	98
17) Methyl tert-butyl Ether	2.80	73	135654	24.638	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	46118	22.960	ug/L	97
19) 1,1-Dichloroethane	3.22	63	90065	23.160	ug/L	97
21) 2-Butanone	4.01	43	42685	55.352	ug/L	95
22) cis-1,2-Dichloroethene	3.95	96	55844	23.757	ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	25628	23.405	ug/L	97
25) Chloroform	4.42	83	100224	23.758	ug/L	98
27) 1,2-Dichloroethane	5.17	62	68470	23.263	ug/L	97
30) Cyclohexane	4.71	56	70797	25.112	ug/L	98
31) 1,1,1-Trichloroethane	4.65	97	76774	24.105	ug/L	99
32) Carbon tetrachloride	4.87	117	66303	24.395	ug/L	100
34) Benzene	5.14	78	203499	23.810	ug/L	100
35) Trichloroethene	5.96	95	54544	24.623	ug/L	97
36) Methylcyclohexane	6.17	83	76659	24.868	ug/L	99
40) 1,2-Dichloropropane	6.22	63	56351	24.207	ug/L	99
41) Bromodichloromethane	6.55	83	70209	23.520	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	83380	24.551	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	93610	56.940	ug/L	99
44) Toluene	7.43	91	226594	23.850	ug/L	96
45) trans-1,3-Dichloropropene	7.69	75	70844	24.682	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	46005	24.538	ug/L	96
47) Tetrachloroethene	8.02	164	38539	23.545	ug/L	93
49) 2-Hexanone	8.18	43	63751	52.505	ug/L	99
50) Dibromochloromethane	8.29	129	51498	24.695	ug/L	100
51) 1,2-Dibromoethane	8.39	107	43825	24.812	ug/L	99
52) Chlorobenzene	8.92	112	149190	23.057	ug/L	96
53) Ethylbenzene	9.05	91	248205	23.847	ug/L	99
54) m,p-Xylene	9.18	106	93575	22.818	ug/L	100
55) o-xylene	9.59	106	93756	23.270	ug/L	100
56) Styrene	9.60	104	161308	23.349	ug/L	98
57) Isopropylbenzene	9.97	105	241840	23.979	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	60194	24.311	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	45946	25.611	ug/L	98
62) Bromoform	9.78	173	28451	28.469	ug/L #	98
63) 1,3-Dichlorobenzene	11.23	146	104296	23.577	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	105859	23.100	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	101490	22.996	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	8649	26.168	ug/L	88
67) 1,3,5-Trichlorobenzene	12.69	180	68979	21.397	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	56296	21.626	ug/L	97
69) Naphthalene	13.55	128	135490	24.847	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	56078	22.634	ug/L	99

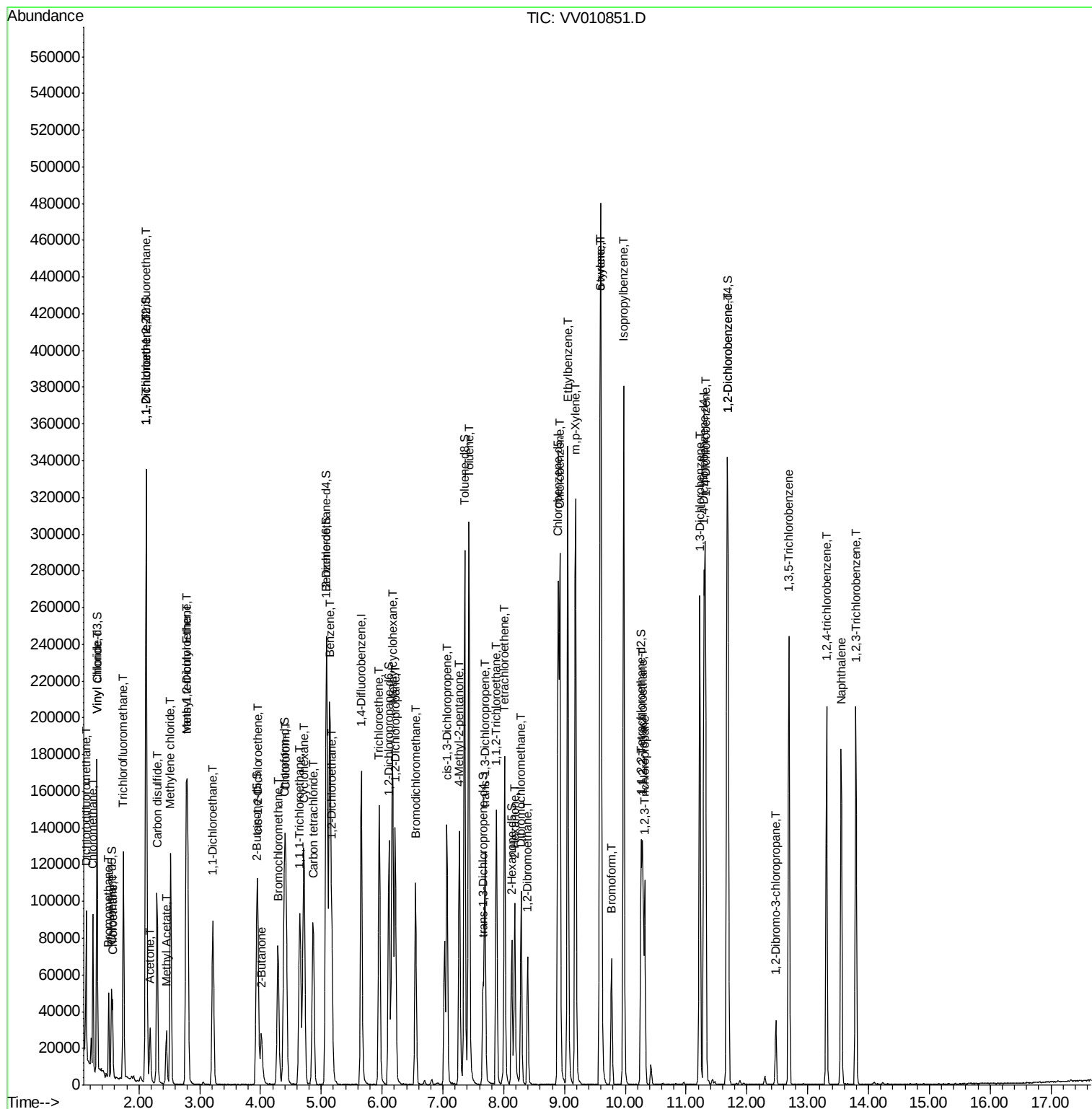
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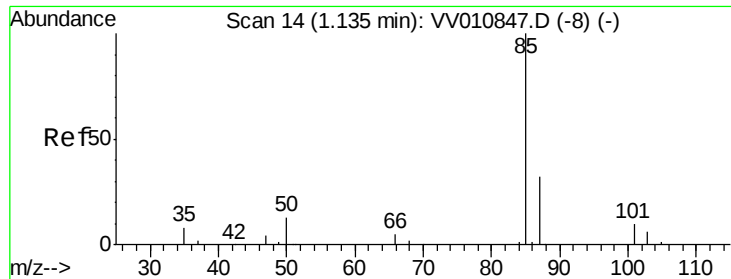
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.900 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

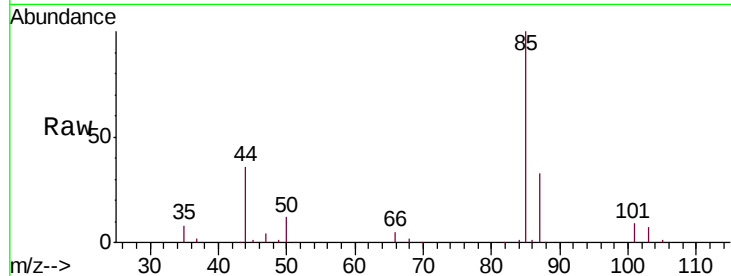
VSTD02596

Tgt Ion: 85 Resp: 38800

Ion Ratio Lower Upper

85 100

87 33.0 23.0 42.6

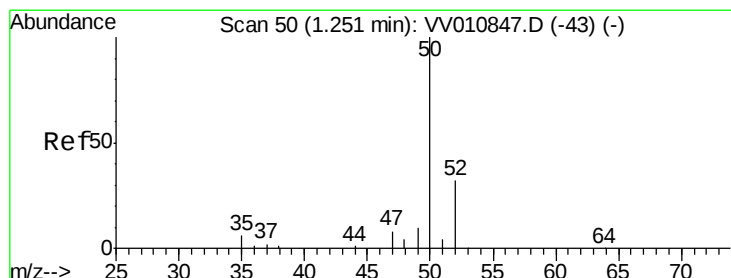
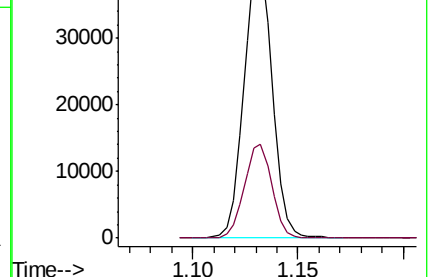
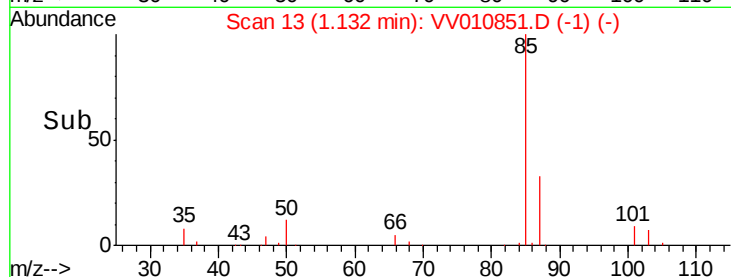


Abundance Ion 85.00 (84.70 to 85.70): VV010847.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010847.D (-8) (-)

1.13

Time-->



#3

Chloromethane

Concen: 23.776 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.01 min

Lab File: VV010851.D

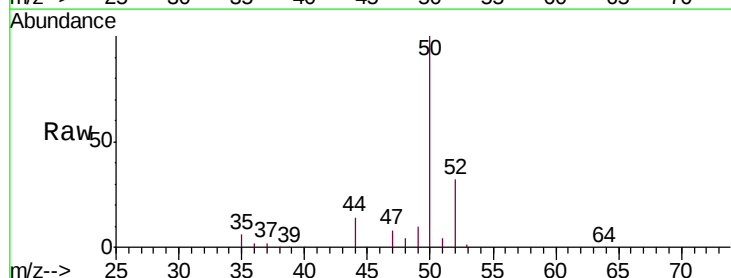
Acq: 13 May 2019 23:23

Tgt Ion: 50 Resp: 46227

Ion Ratio Lower Upper

50 100

52 31.6 22.5 41.7

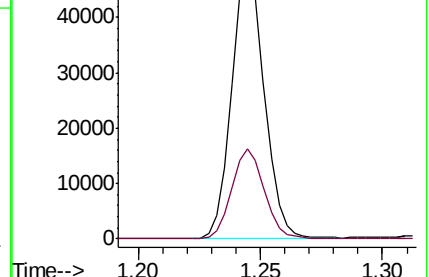
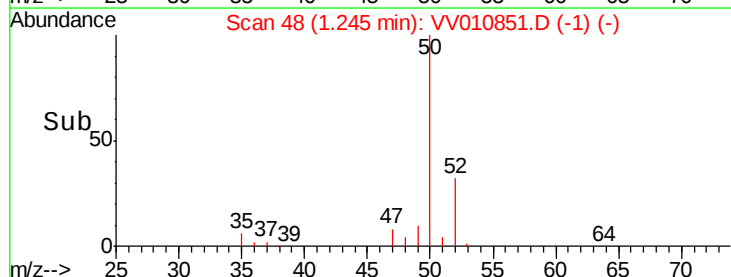


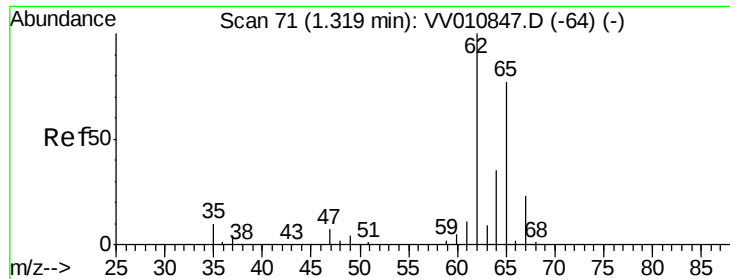
Abundance Ion 50.00 (49.70 to 50.70): VV010847.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV010847.D (-43) (-)

1.24

Time-->





#5

Vinyl chloride

Concen: 23.293 ug/L

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

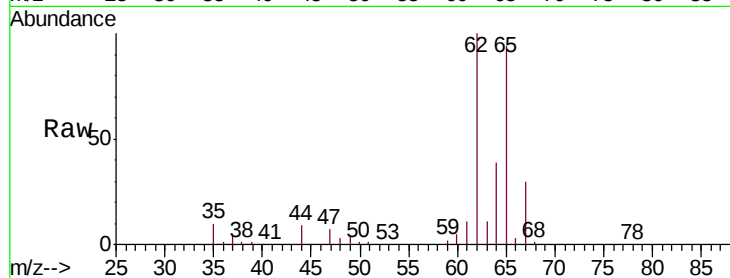
VSTD02596

Tgt Ion: 62 Resp: 48757

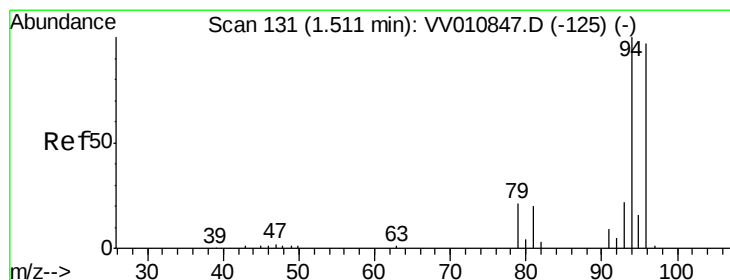
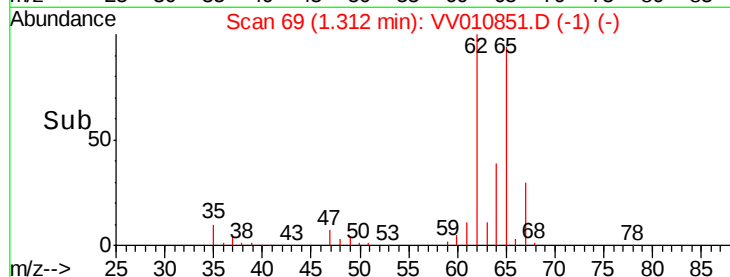
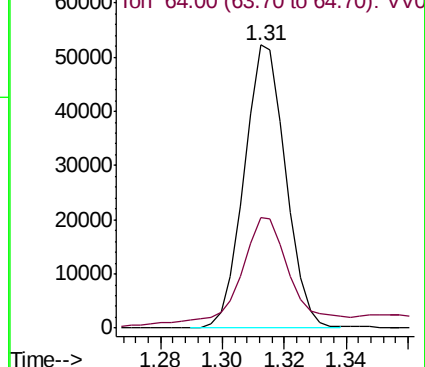
Ion Ratio Lower Upper

62 100

64 38.9 26.1 48.5



Abundance Ion 62.00 (61.70 to 62.70): VV010847.D (-64) (-)



#6

Bromomethane

Concen: 28.134 ug/L

RT: 1.50 min Scan# 128

Delta R.T. -0.01 min

Lab File: VV010851.D

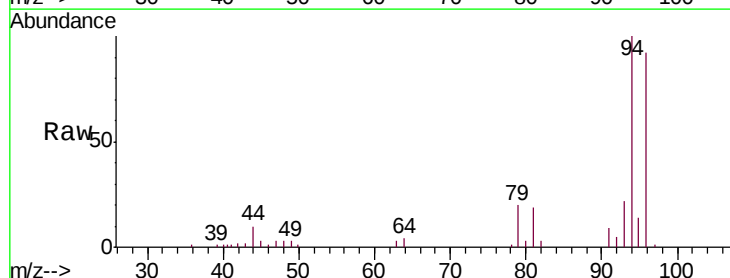
Acq: 13 May 2019 23:23

Tgt Ion: 94 Resp: 13669

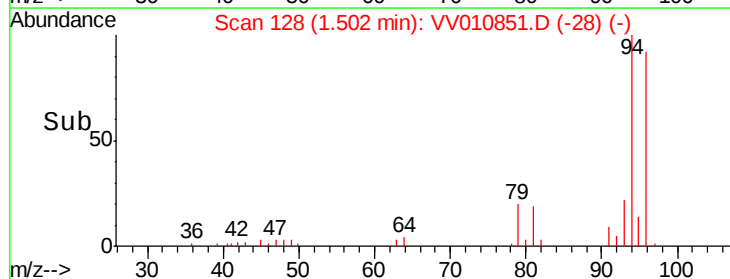
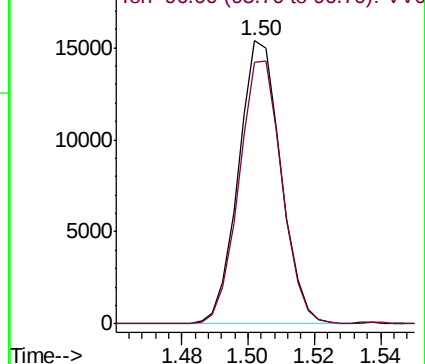
Ion Ratio Lower Upper

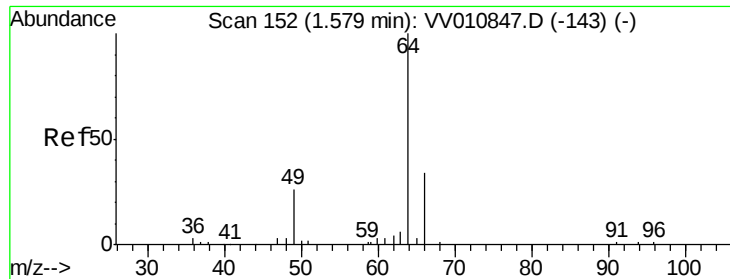
94 100

96 93.7 9.6 181.6



Abundance Ion 94.00 (93.70 to 94.70): VV010847.D (-125) (-)





#8

Chloroethane

Concen: 20.684 ug/L

RT: 1.57 min Scan# 148

Delta R.T. -0.01 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

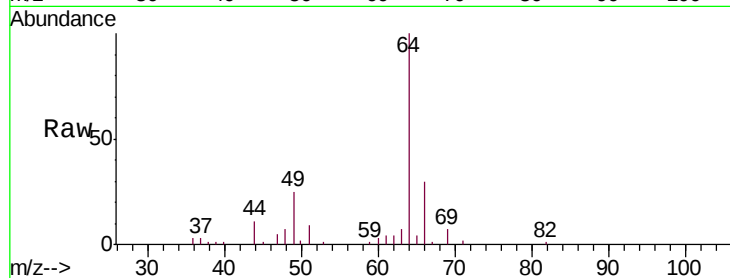
VSTD02596

Tgt Ion: 64 Resp: 22393

Ion Ratio Lower Upper

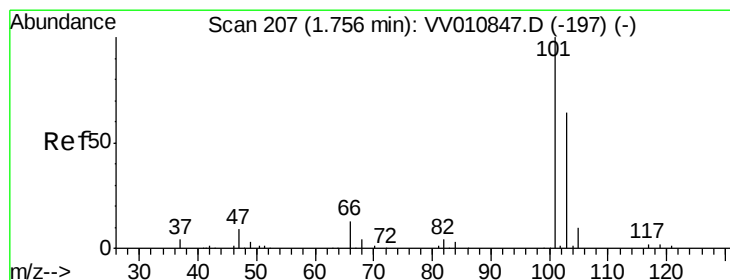
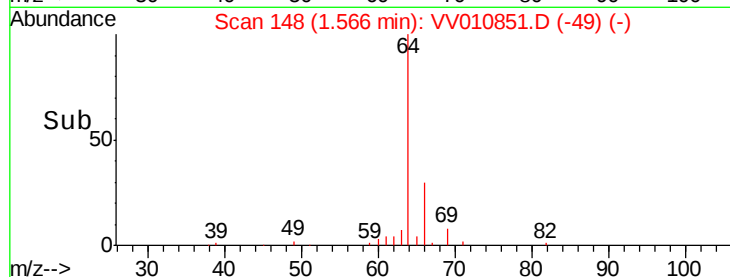
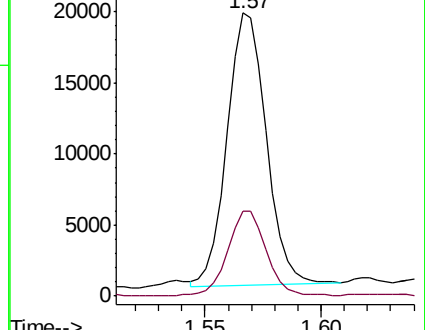
64 100

66 30.0 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV010847.D (-143) (-)

Ion 66.00 (65.70 to 66.70): VV010847.D (-143) (-)



#9

Trichlorofluoromethane

Concen: 23.767 ug/L

RT: 1.75 min Scan# 204

Delta R.T. -0.01 min

Lab File: VV010851.D

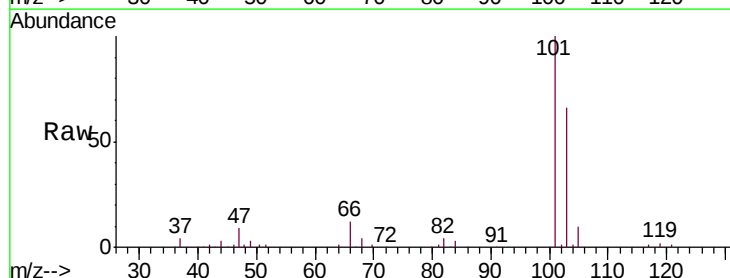
Acq: 13 May 2019 23:23

Tgt Ion: 101 Resp: 71215

Ion Ratio Lower Upper

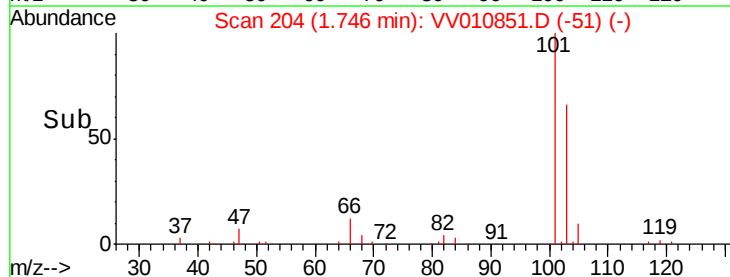
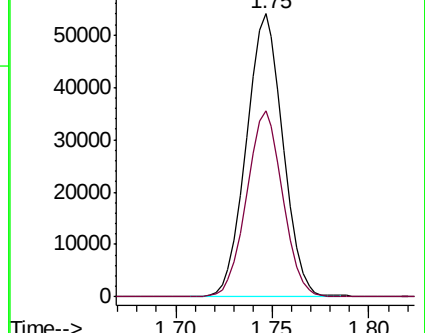
101 100

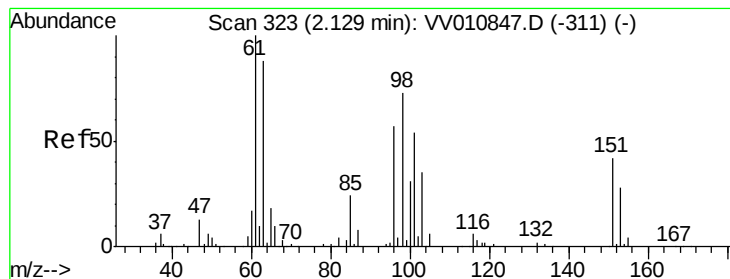
103 64.6 45.4 84.4



Abundance Ion 101.00 (100.70 to 101.70): VV010847.D (-197) (-)

Ion 103.00 (102.70 to 103.70): VV010847.D (-197) (-)





#11

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

Concen: 23.742 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02596

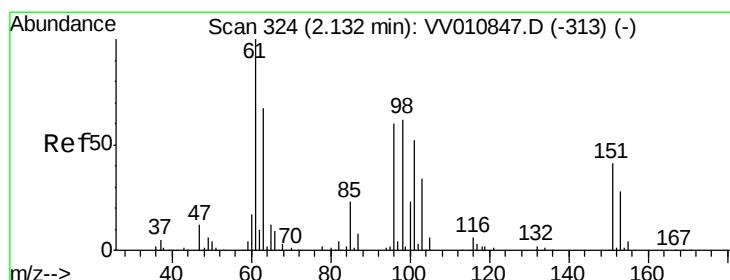
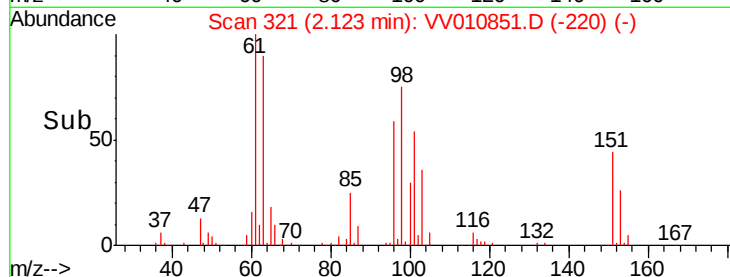
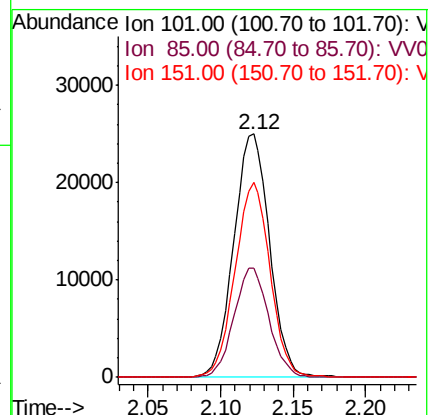
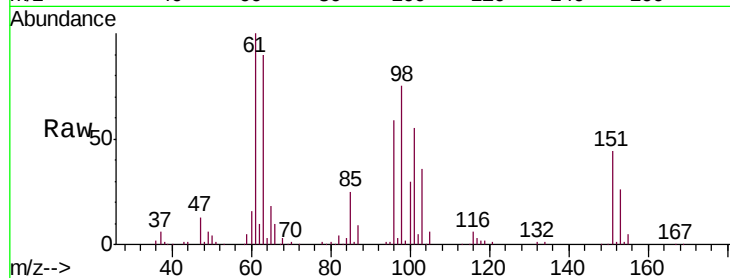
Tgt Ion: 101 Resp: 42910

Ion Ratio Lower Upper

101 100

85 43.6 35.7 53.5

151 78.0 62.2 93.2



#12

1,1-Dichloroethene

Concen: 23.428 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

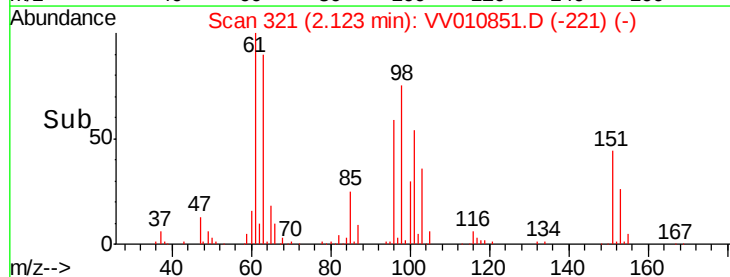
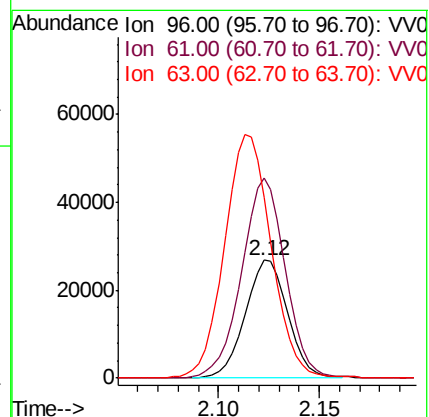
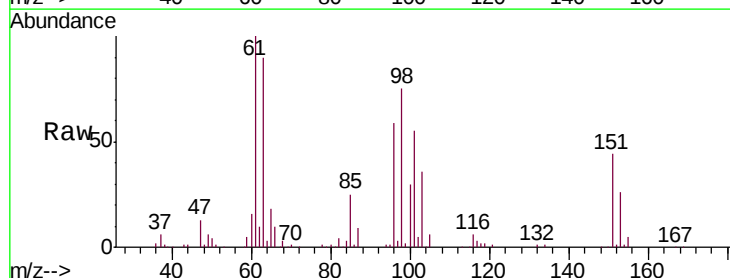
Tgt Ion: 96 Resp: 39505

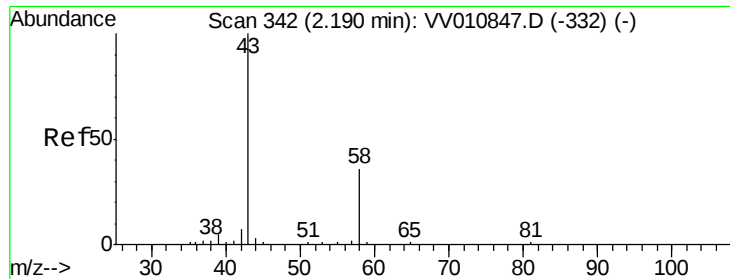
Ion Ratio Lower Upper

96 100

61 170.3 117.5 218.3

63 153.6 82.8 153.8





#13

Acetone

Concen: 47.023 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.01 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

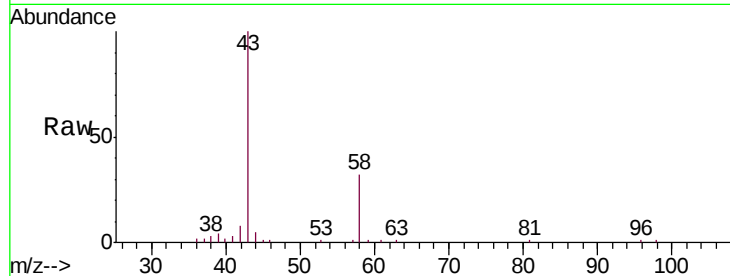
VSTD02596

Tgt Ion: 43 Resp: 28092

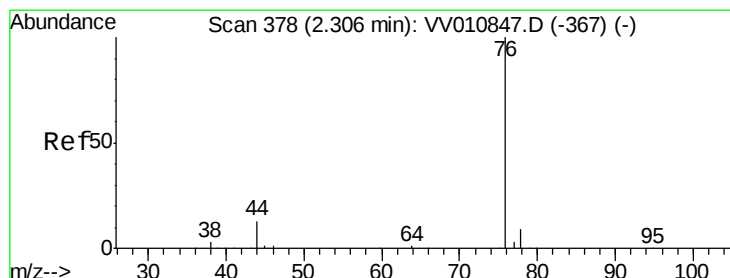
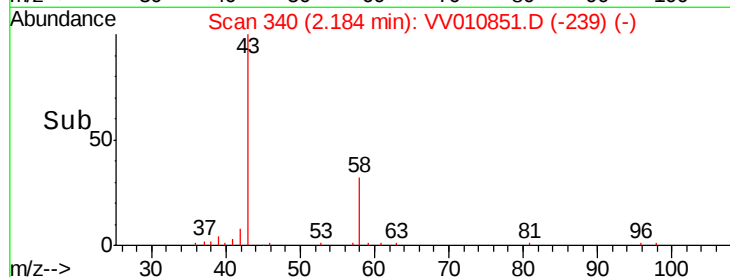
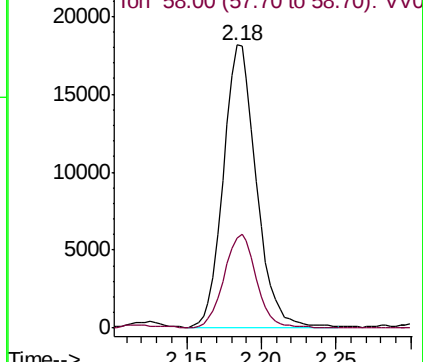
Ion Ratio Lower Upper

43 100

58 32.2 0.0 69.2



Abundance Ion 43.00 (42.70 to 43.70): VV010847.D (-332) (-)



#14

Carbon disulfide

Concen: 22.535 ug/L

RT: 2.30 min Scan# 376

Delta R.T. -0.01 min

Lab File: VV010851.D

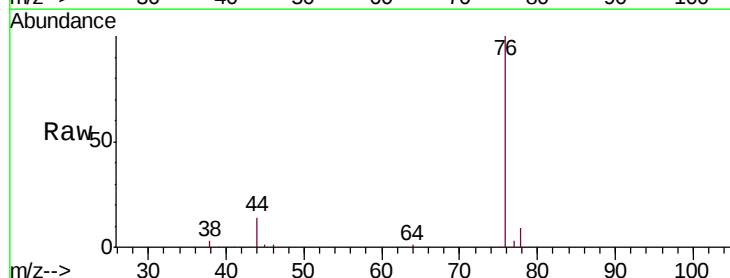
Acq: 13 May 2019 23:23

Tgt Ion: 76 Resp: 114458

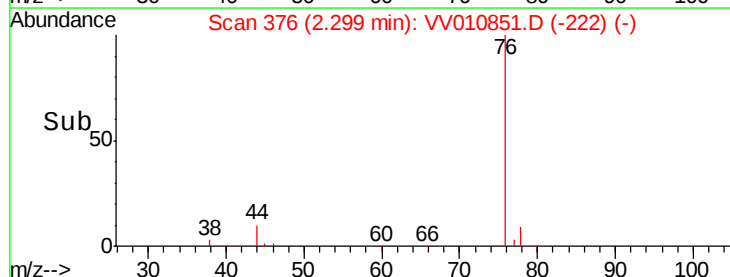
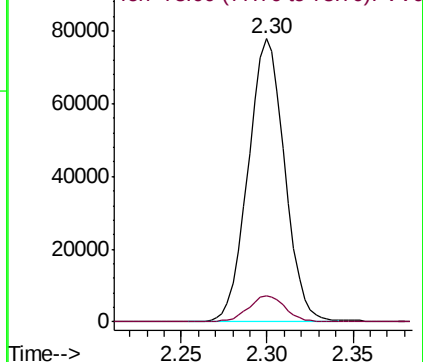
Ion Ratio Lower Upper

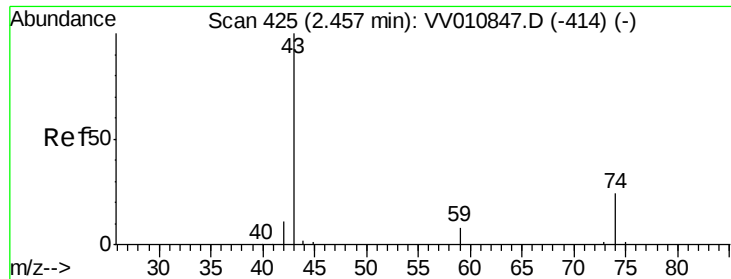
76 100

78 9.3 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV010847.D (-367) (-)

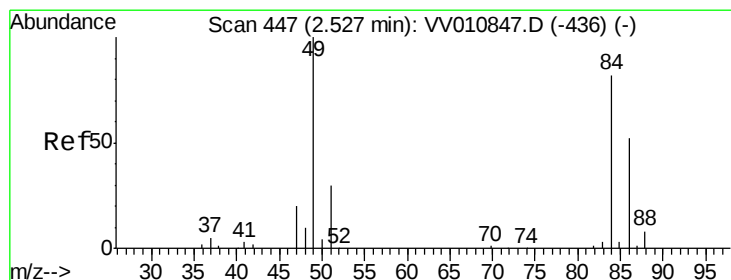
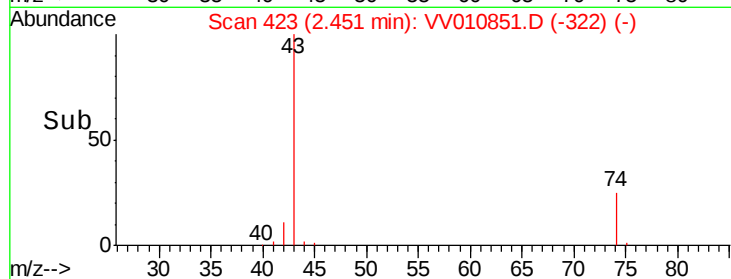
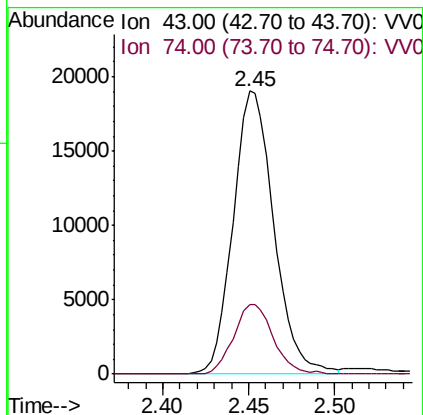
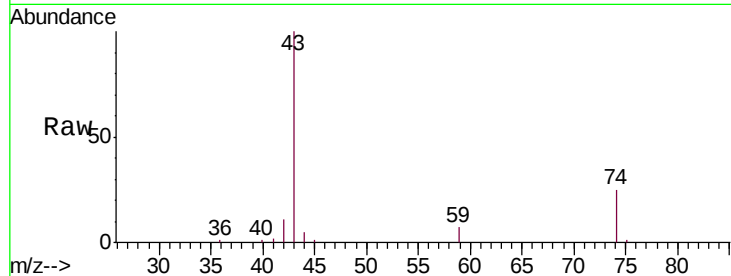




#15
Methyl Acetate
Concen: 25.228 ug/L
RT: 2.45 min Scan# 423
Delta R.T. -0.01 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

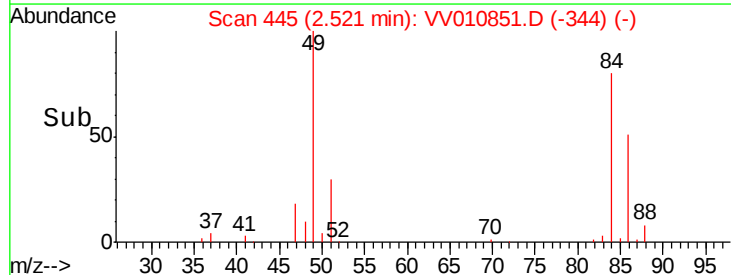
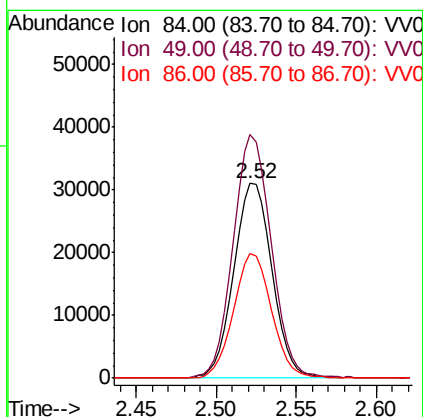
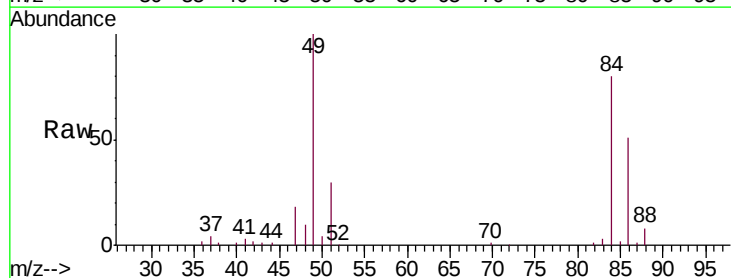
Instrument :
MSVOA_V
ClientSampleId :
VSTD02596

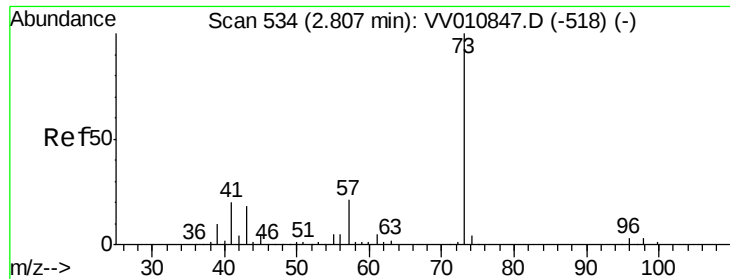
Tgt Ion: 43 Resp: 31391
Ion Ratio Lower Upper
43 100
74 23.7 18.6 27.8



#16
Methylene chloride
Concen: 21.493 ug/L
RT: 2.52 min Scan# 445
Delta R.T. -0.01 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

Tgt Ion: 84 Resp: 50756
Ion Ratio Lower Upper
84 100
49 125.0 85.8 159.3
86 64.0 45.0 83.6

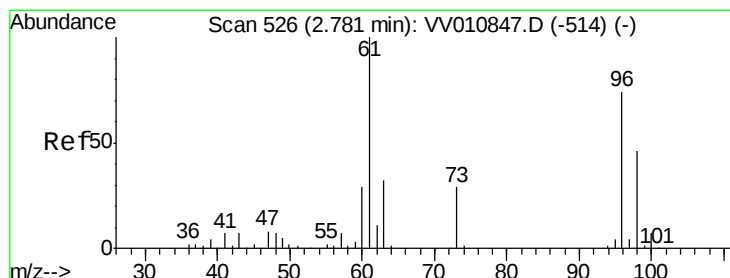
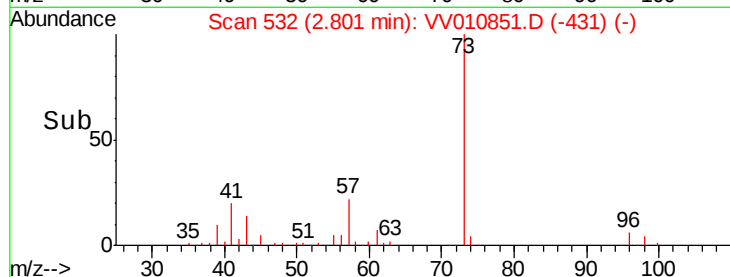
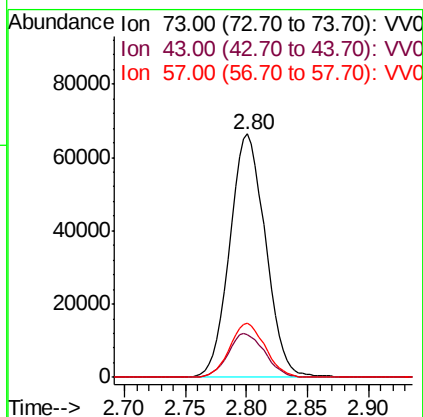
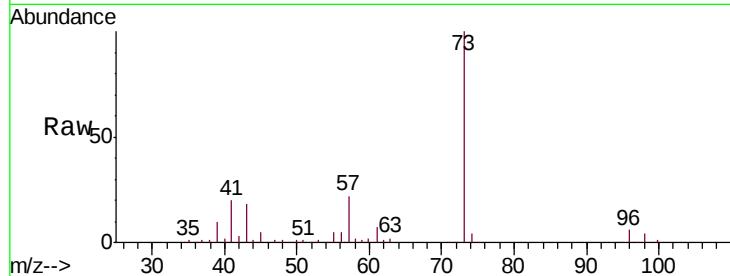




#17
Methyl tert-butyl Ether
Concen: 24.638 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.01 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

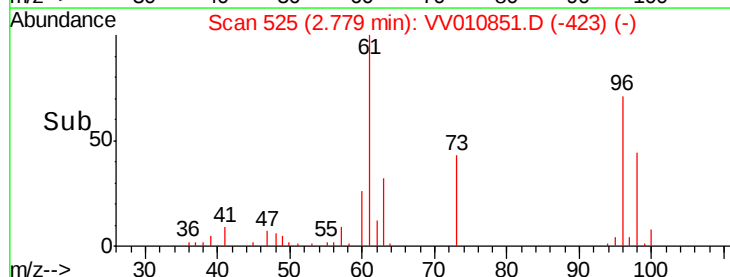
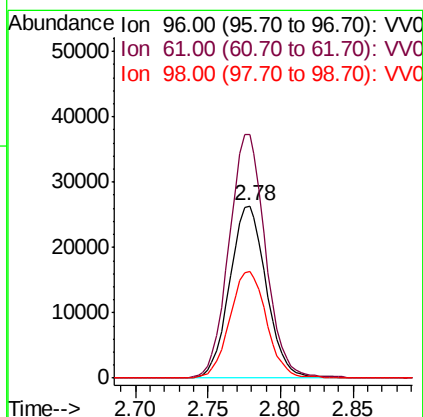
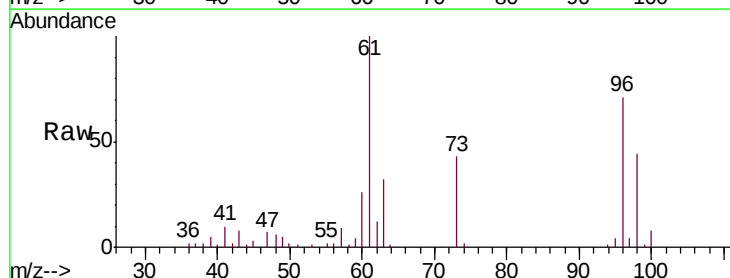
Instrument :
MSVOA_V
ClientSampleId :
VSTD02596

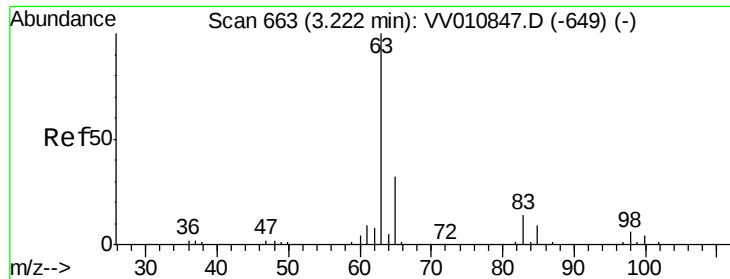
Tgt Ion: 73 Resp: 135654
Ion Ratio Lower Upper
73 100
43 18.4 15.3 22.9
57 22.1 17.5 26.3



#18
trans-1,2-Dichloroethene
Concen: 22.960 ug/L
RT: 2.78 min Scan# 525
Delta R.T. -0.00 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

Tgt Ion: 96 Resp: 46118
Ion Ratio Lower Upper
96 100
61 141.1 95.0 176.4
98 61.5 43.3 80.3

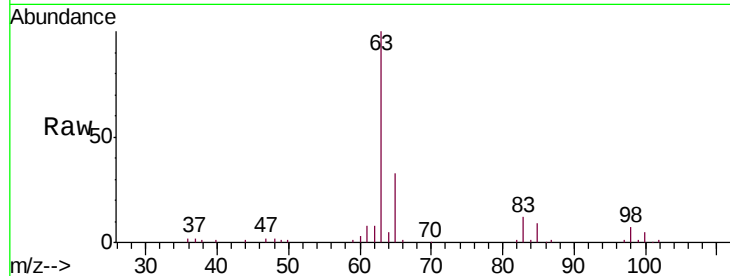




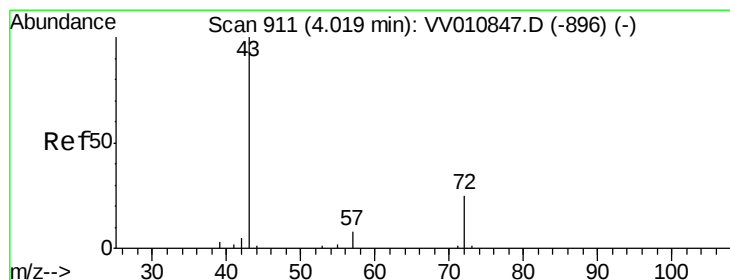
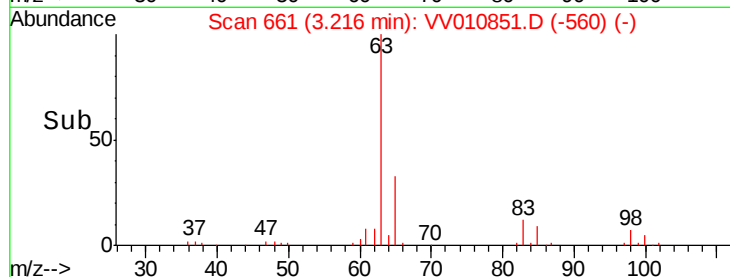
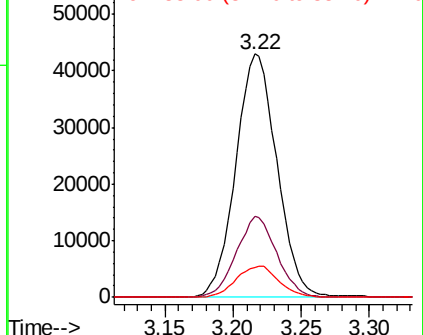
#19
 1,1-Dichloroethane
 Concen: 23.160 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. -0.01 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02596

Tgt Ion: 63 Resp: 90065
 Ion Ratio Lower Upper
 63 100
 65 33.2 22.1 41.1
 83 12.4 9.7 17.9

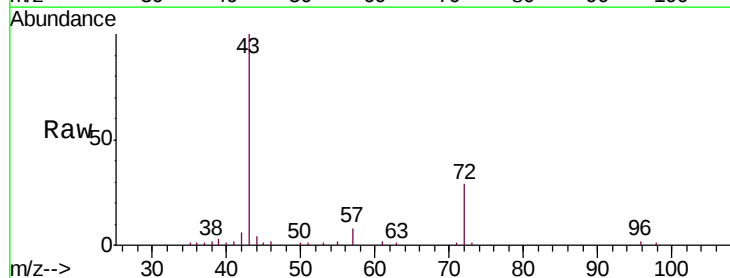


Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0

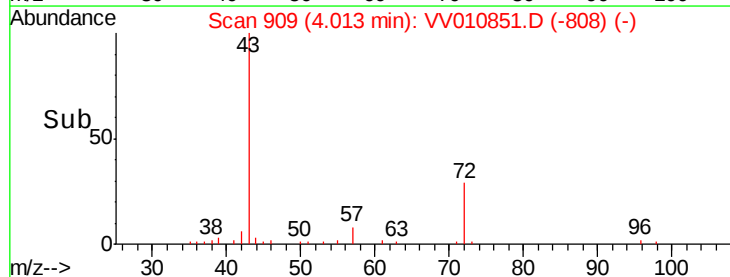
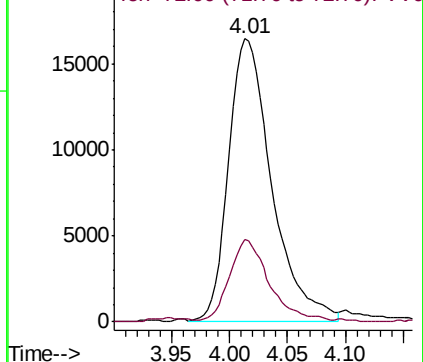


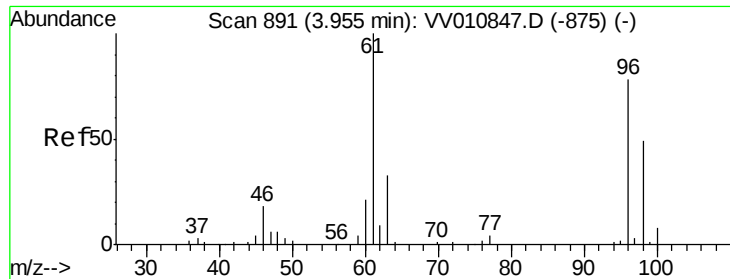
#21
 2-Butanone
 Concen: 55.352 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

Tgt Ion: 43 Resp: 42685
 Ion Ratio Lower Upper
 43 100
 72 24.5 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VV0
 Ion 72.00 (71.70 to 72.70): VV0



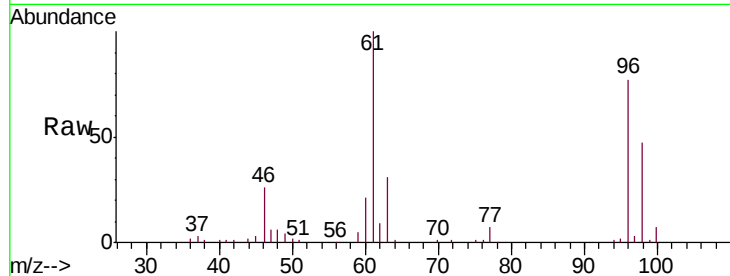


#22

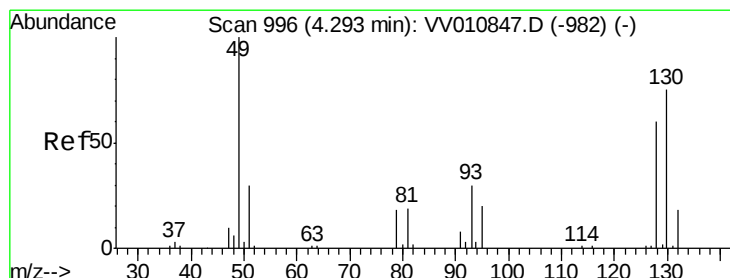
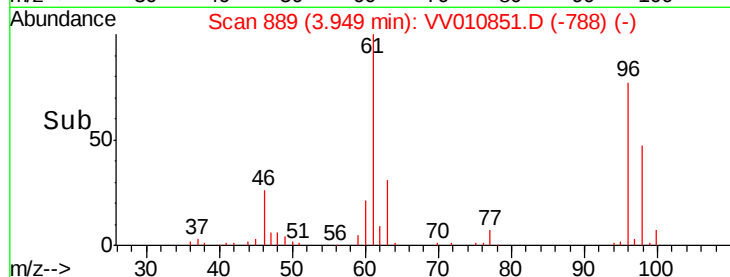
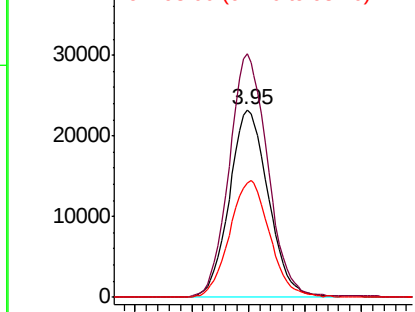
cis-1,2-Dichloroethene
 Concen: 23.757 ug/L
 RT: 3.95 min Scan# 889
 Delta R.T. -0.01 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02596

Tgt Ion: 96 Resp: 55844
 Ion Ratio Lower Upper
 96 100
 61 130.0 90.2 167.6
 98 60.8 44.2 82.0



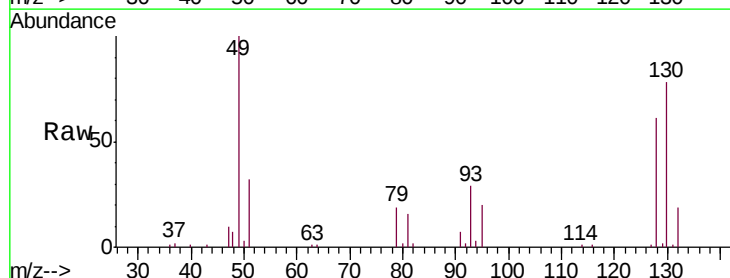
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



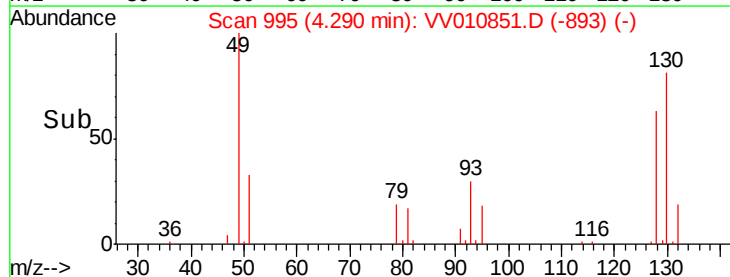
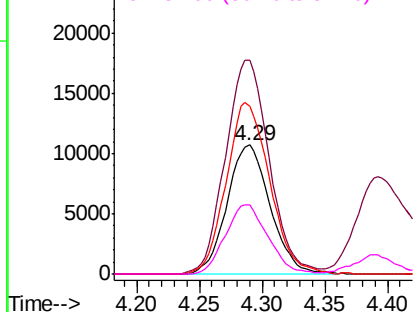
#23

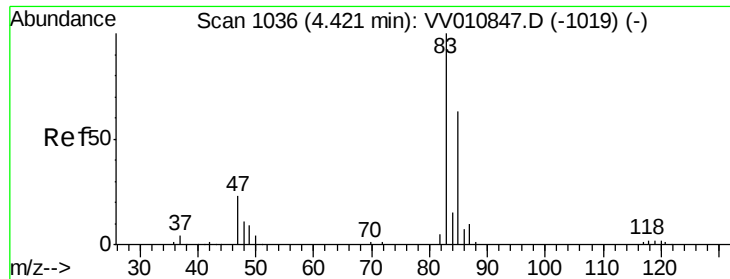
Bromochloromethane
 Concen: 23.405 ug/L
 RT: 4.29 min Scan# 995
 Delta R.T. -0.00 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

Tgt Ion: 128 Resp: 25628
 Ion Ratio Lower Upper
 128 100
 49 165.3 117.8 218.8
 130 129.7 88.4 164.2
 51 53.2 40.6 60.8



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

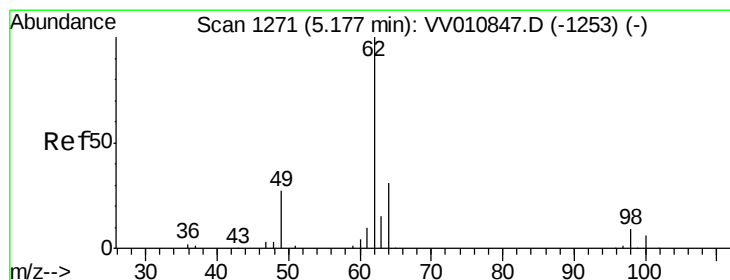
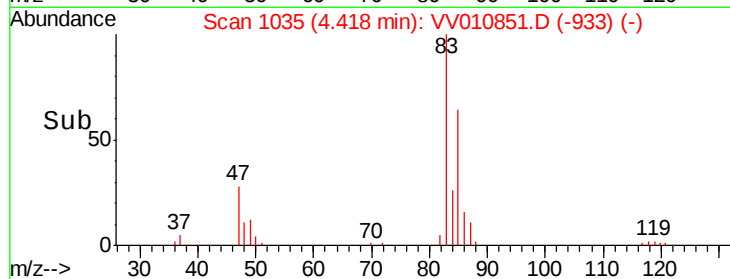
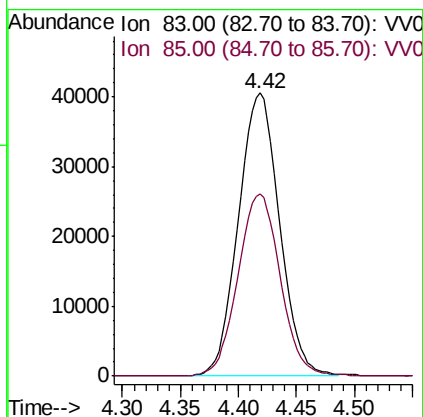
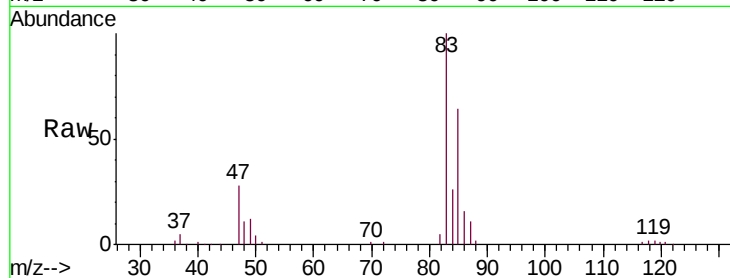




#25
Chloroform
Concen: 23.758 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

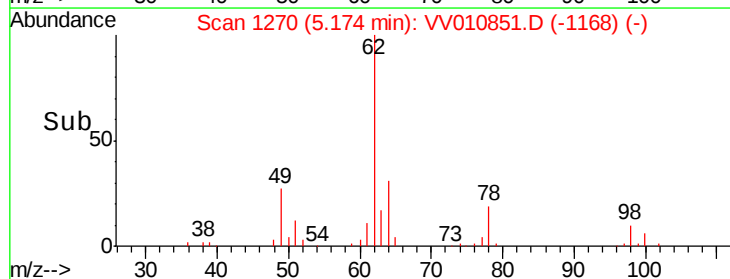
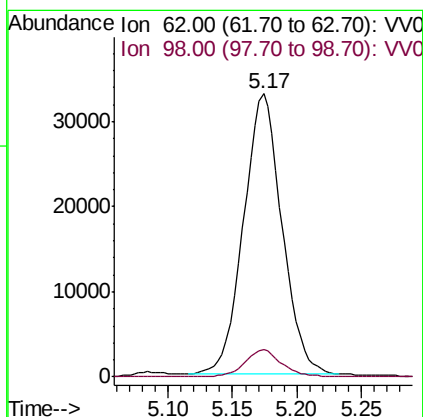
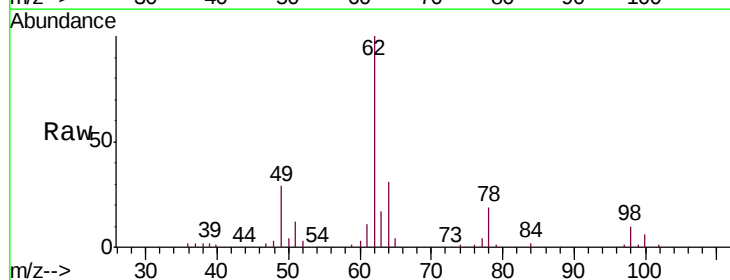
Instrument :
MSVOA_V
ClientSampleId :
VSTD02596

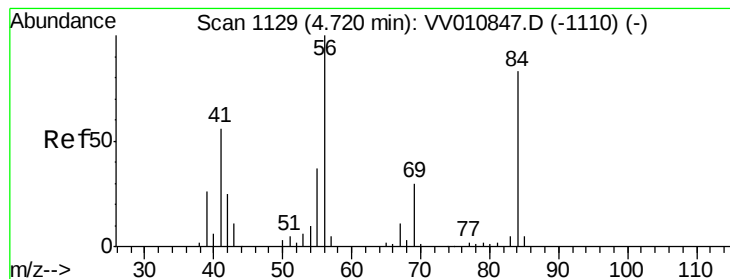
Tgt Ion: 83 Resp: 100224
Ion Ratio Lower Upper
83 100
85 66.2 45.3 84.1



#27
1,2-Dichloroethane
Concen: 23.263 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

Tgt Ion: 62 Resp: 68470
Ion Ratio Lower Upper
62 100
98 9.6 7.0 10.4





#30

Cyclohexane

Concen: 25.112 ug/L

RT: 4.71 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02596

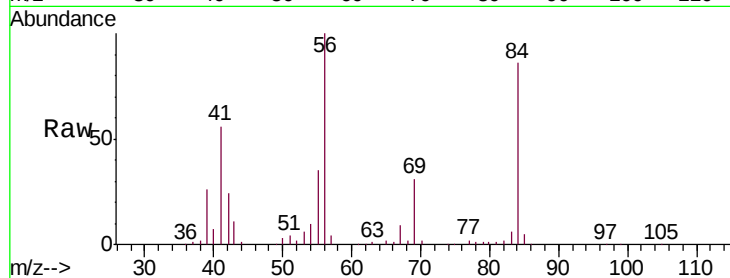
Tgt Ion: 56 Resp: 70797

Ion Ratio Lower Upper

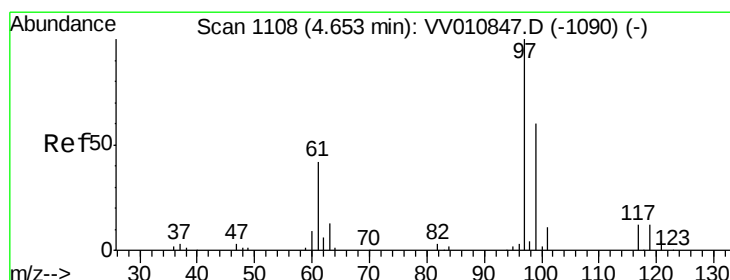
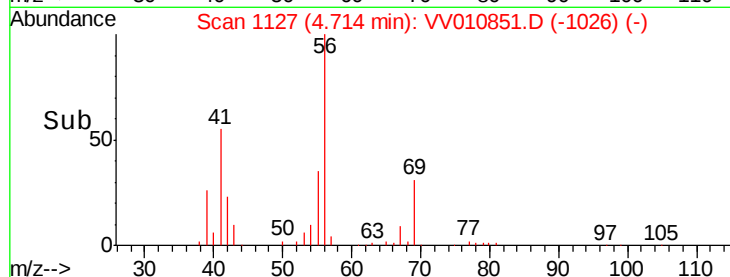
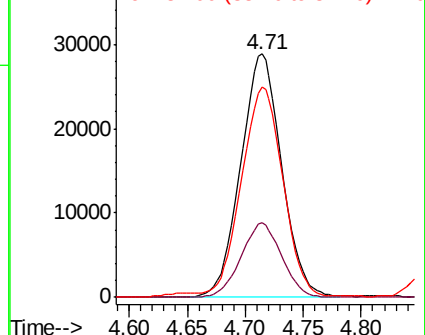
56 100

69 30.2 25.2 37.8

84 88.2 69.0 103.4



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 24.105 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

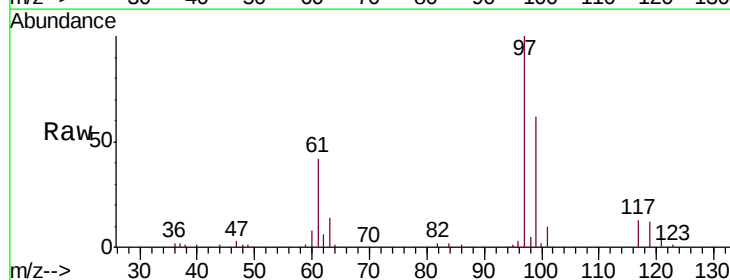
Tgt Ion: 97 Resp: 76774

Ion Ratio Lower Upper

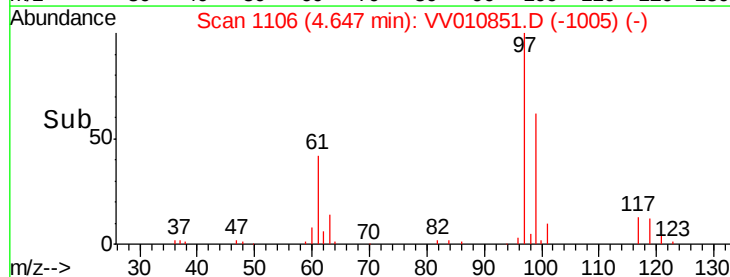
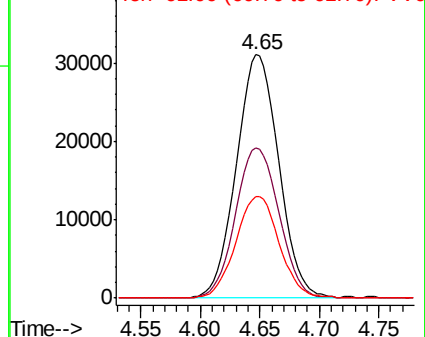
97 100

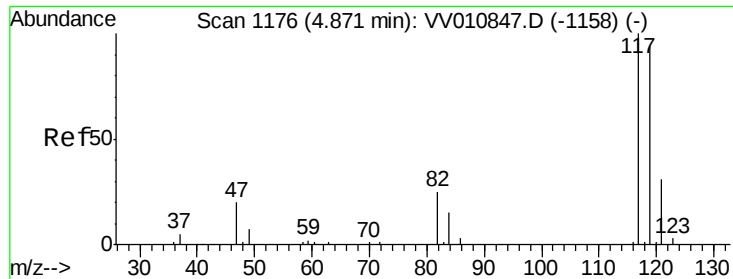
99 63.4 49.4 74.2

61 43.0 34.6 51.8



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 24.395 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

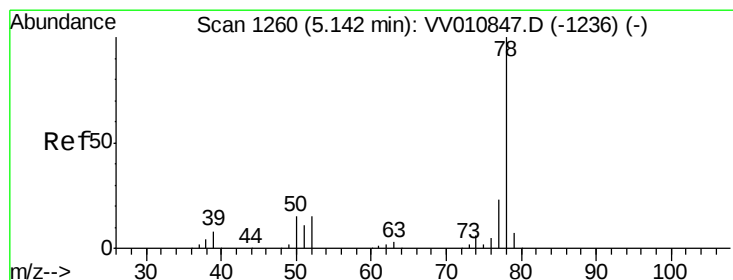
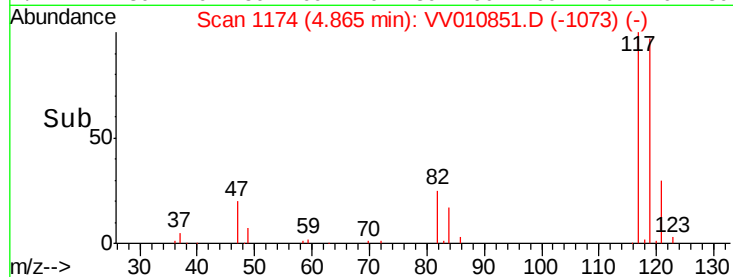
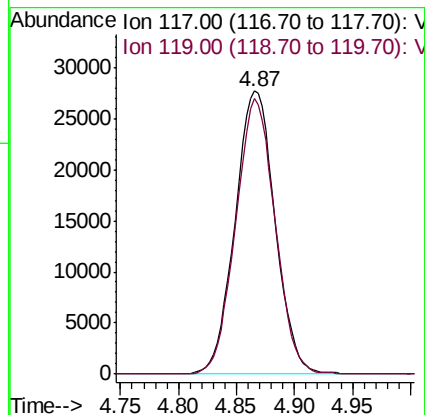
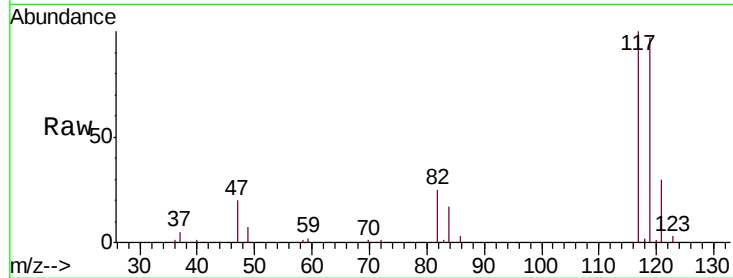
VSTD02596

Tgt Ion:117 Resp: 66303

Ion Ratio Lower Upper

117 100

119 95.6 76.5 114.7



#34

Benzene

Concen: 23.810 ug/L

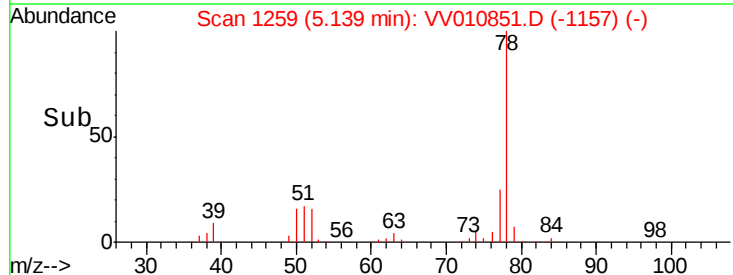
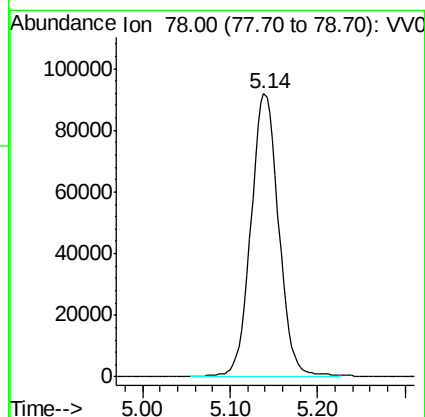
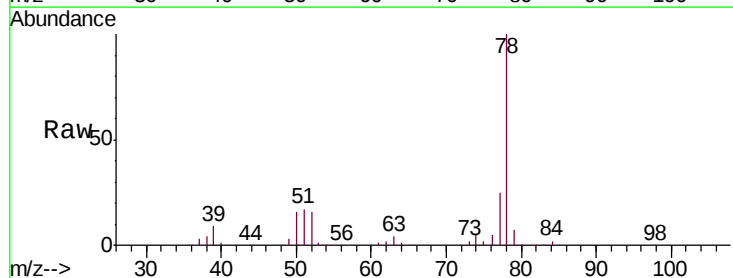
RT: 5.14 min Scan# 1259

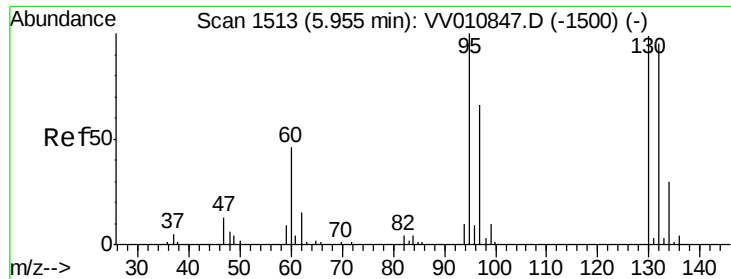
Delta R.T. -0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Tgt Ion: 78 Resp: 203499





#35

Trichloroethene

Concen: 24.623 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02596

Tgt Ion: 95 Resp: 54544

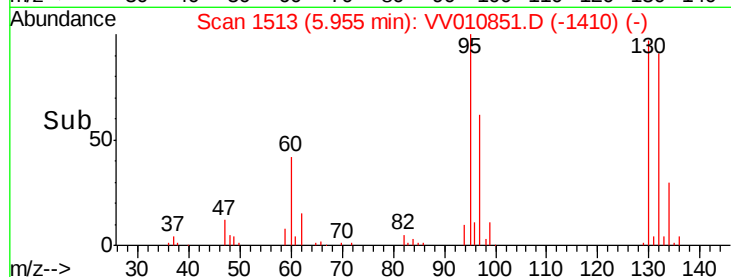
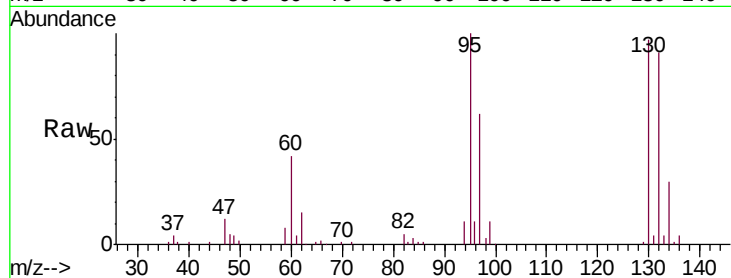
Ion Ratio Lower Upper

95 100

97 63.0 46.0 85.4

132 92.1 67.4 125.2

130 98.5 68.5 127.1



Abundance Ion 95.00 (94.70 to 95.70): VV010851.D (-1410) (-)

Ion 97.00 (96.70 to 97.70): VV010851.D (-1410) (-)

Ion 132.00 (131.70 to 132.70): VV010851.D (-1410) (-)

Ion 130.00 (129.70 to 130.70): VV010851.D (-1410) (-)

Time-->

5.96

40000

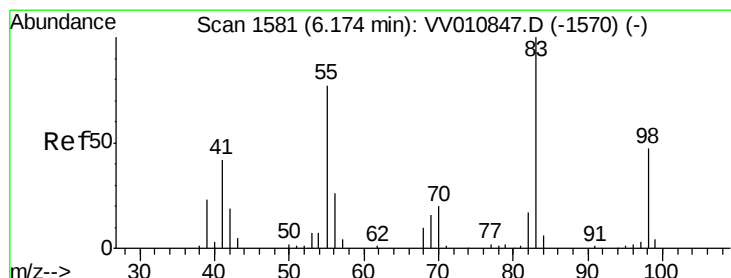
30000

20000

10000

0

5.90 6.00



#36

Methylcyclohexane

Concen: 24.868 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

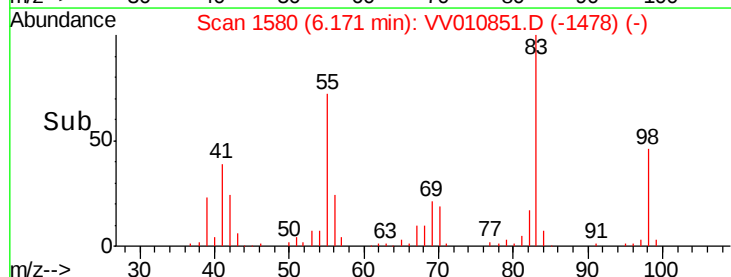
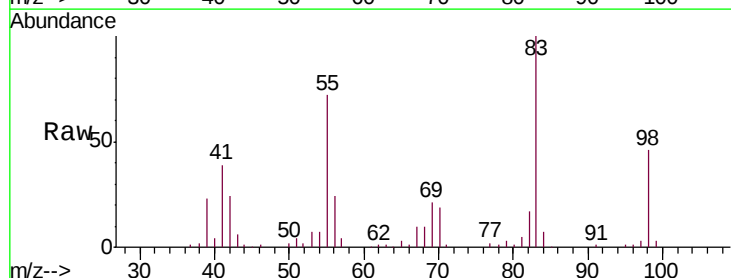
Tgt Ion: 83 Resp: 76659

Ion Ratio Lower Upper

83 100

55 76.2 61.0 91.4

98 47.3 37.2 55.8



Abundance Ion 83.00 (82.70 to 83.70): VV010851.D (-1478) (-)

Ion 55.00 (54.70 to 55.70): VV010851.D (-1478) (-)

Ion 98.00 (97.70 to 98.70): VV010851.D (-1478) (-)

Time-->

6.17

50000

40000

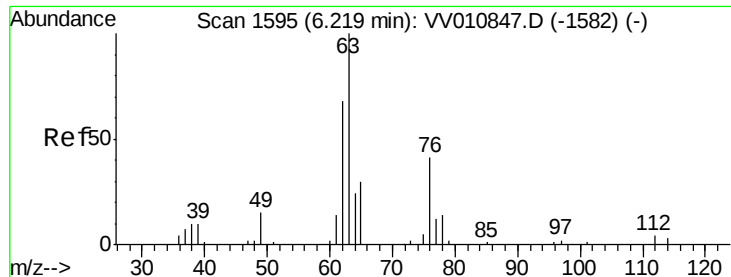
30000

20000

10000

0

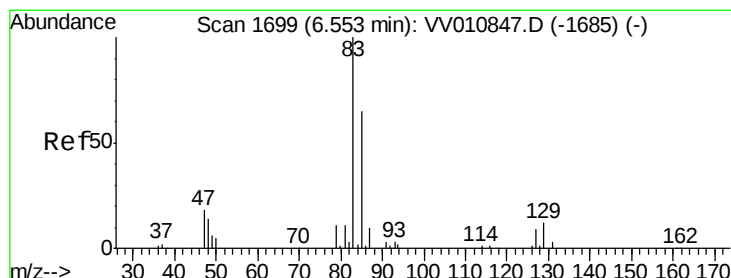
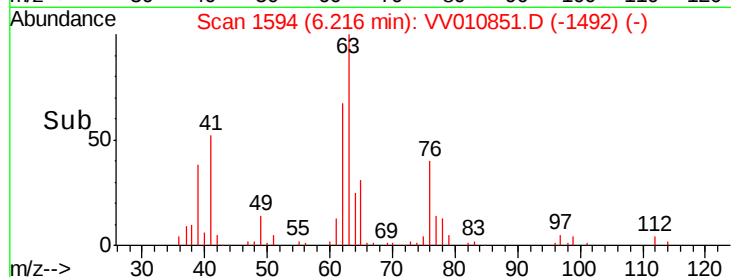
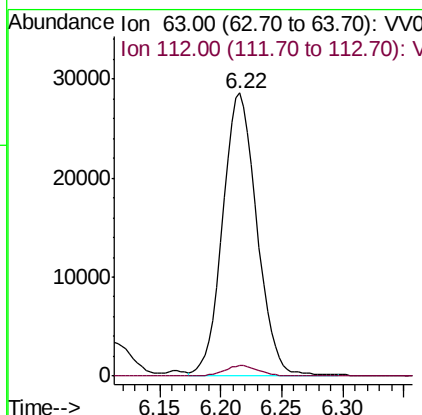
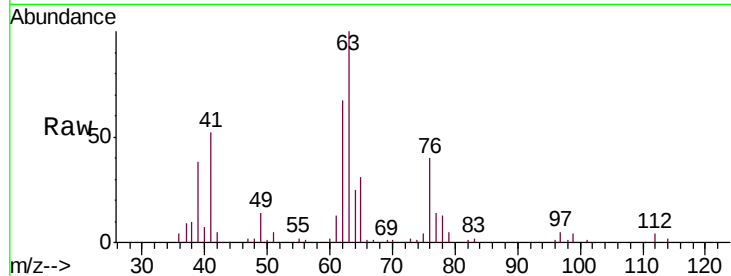
6.10 6.15 6.20



#40
 1,2-Dichloropropane
 Concen: 24.207 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

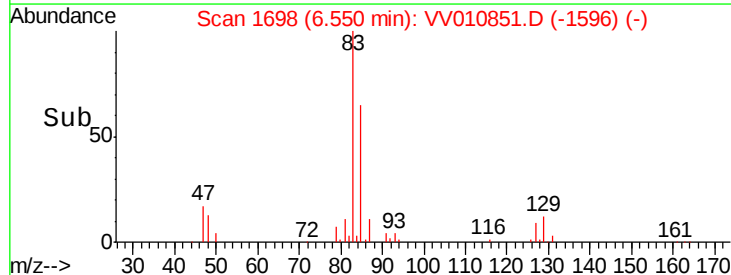
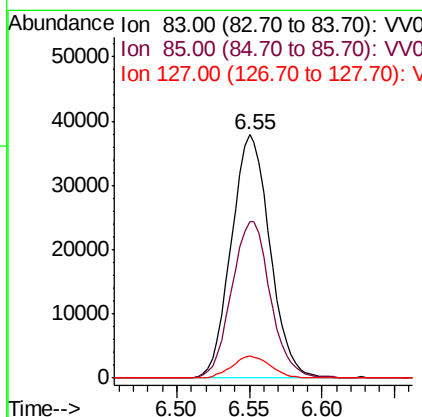
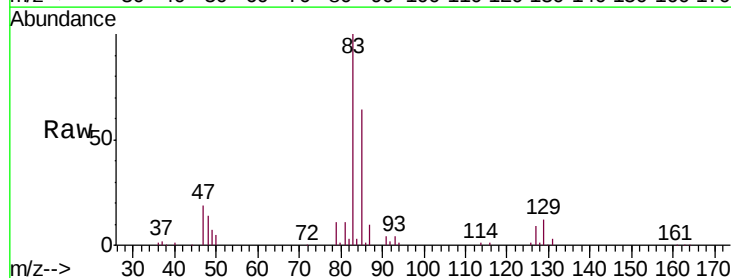
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02596

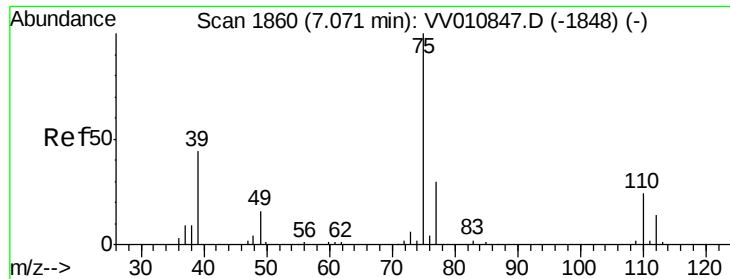
Tgt Ion: 63 Resp: 56351
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.2 4.8



#41
 Bromodichloromethane
 Concen: 23.520 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

Tgt Ion: 83 Resp: 70209
 Ion Ratio Lower Upper
 83 100
 85 64.2 45.3 84.1
 127 9.0 7.4 11.2



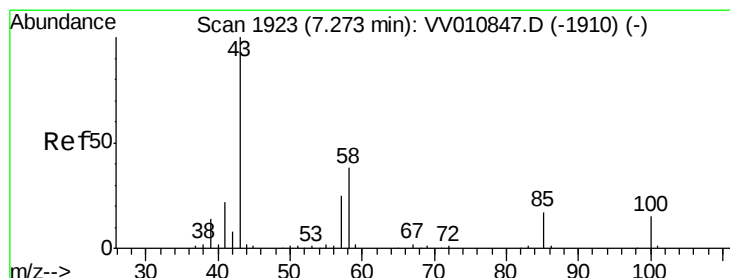
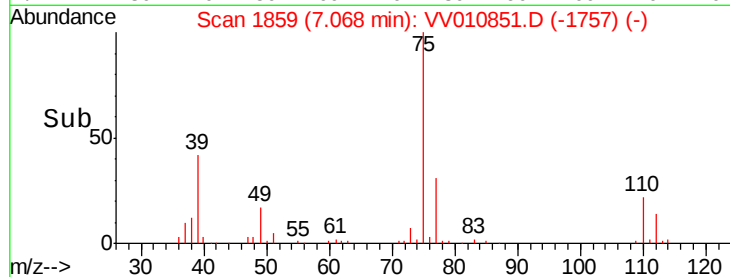
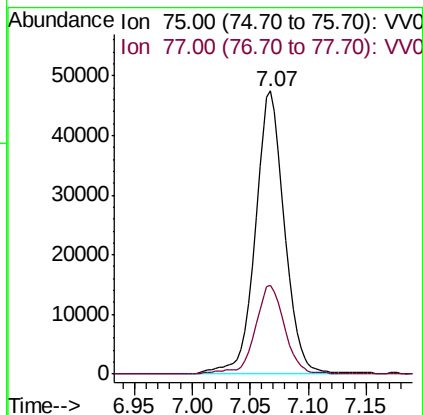
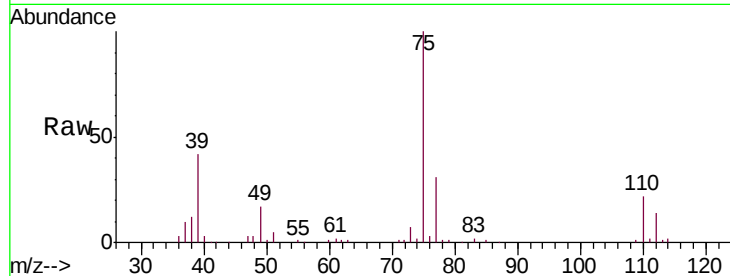


#42

cis-1,3-Dichloropropene
Concen: 24.551 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

Instrument :
MSVOA_V
ClientSampled :
VSTD02596

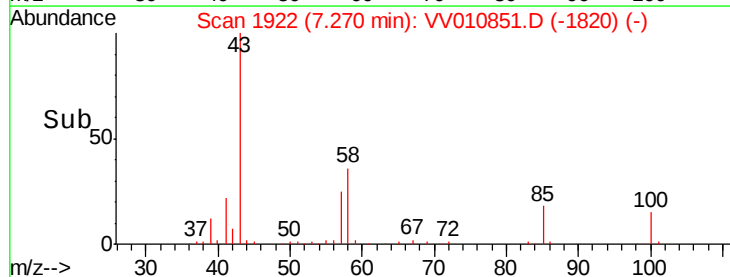
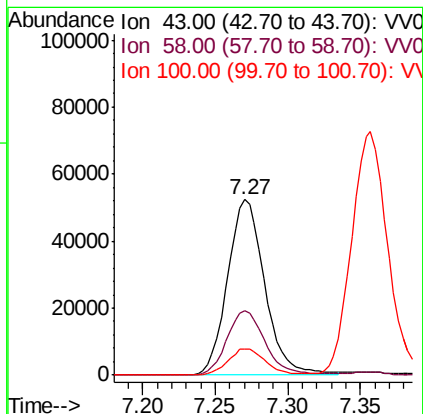
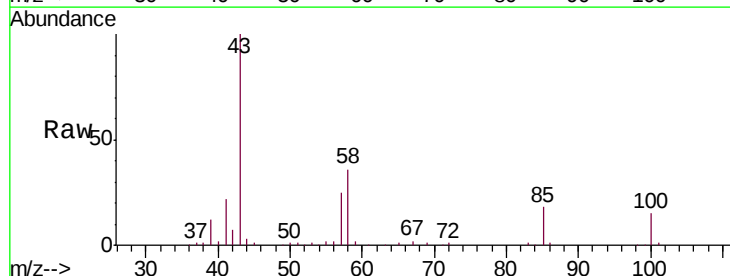
Tgt Ion: 75 Resp: 83380
Ion Ratio Lower Upper
75 100
77 31.3 21.5 39.9

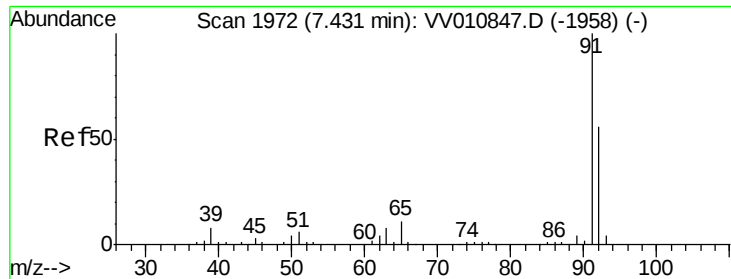


#43

4-Methyl-2-pentanone
Concen: 56.940 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

Tgt Ion: 43 Resp: 93610
Ion Ratio Lower Upper
43 100
58 37.2 30.0 45.0
100 14.9 11.2 16.8





#44

Toluene

Concen: 23.850 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampled :

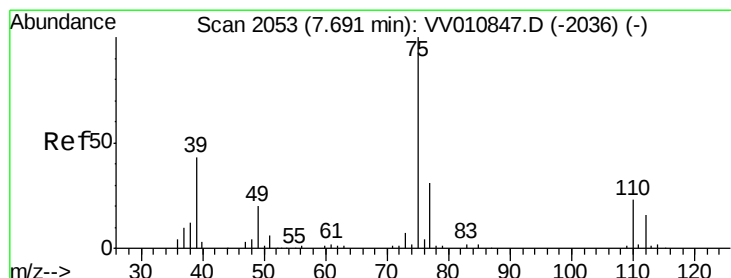
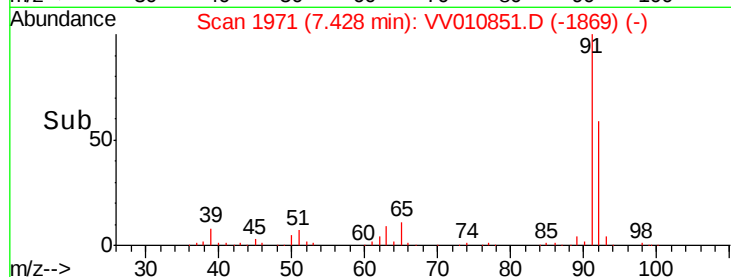
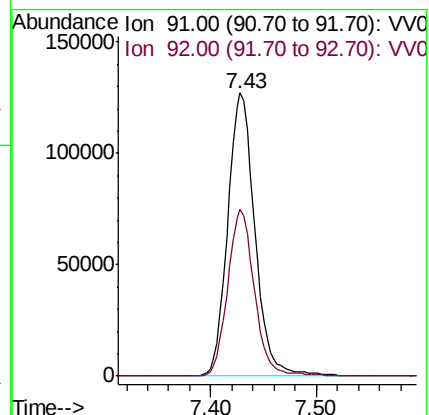
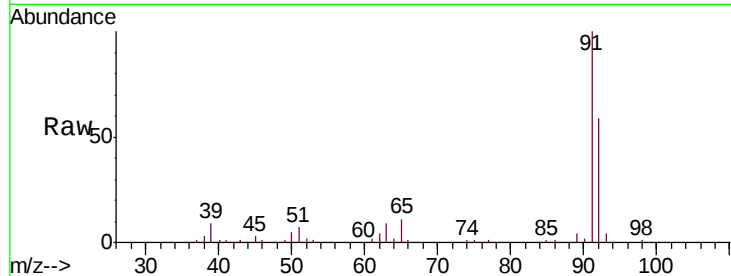
VSTD02596

Tgt Ion: 91 Resp: 226594

Ion Ratio Lower Upper

91 100

92 58.8 39.1 72.7



#45

trans-1,3-Dichloropropene

Concen: 24.682 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010851.D

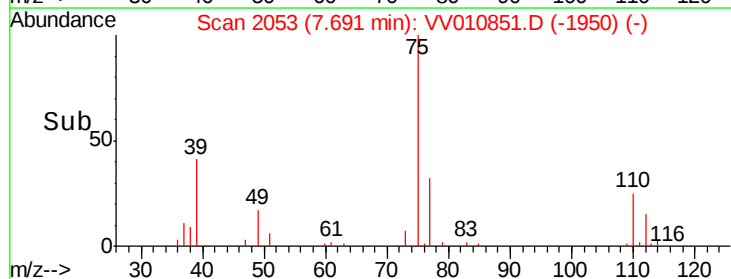
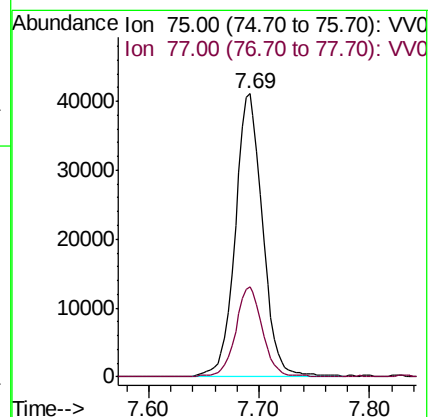
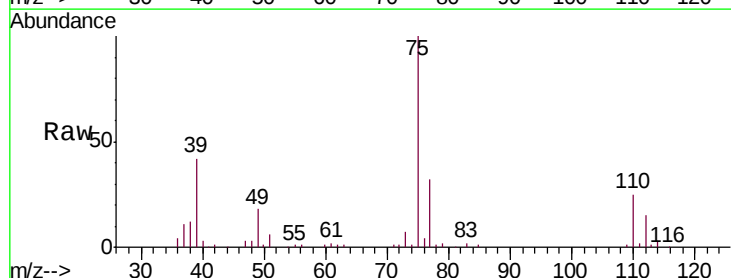
Acq: 13 May 2019 23:23

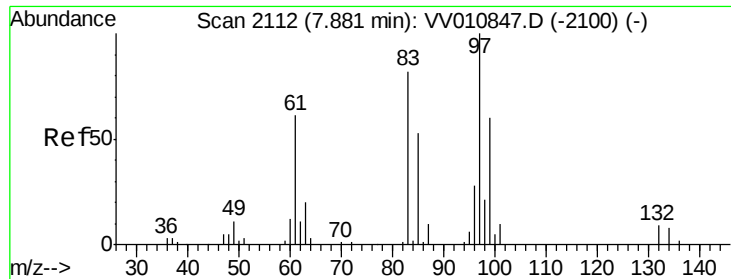
Tgt Ion: 75 Resp: 70844

Ion Ratio Lower Upper

75 100

77 31.8 21.6 40.0

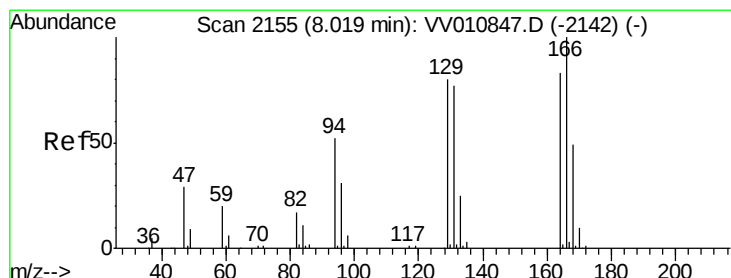
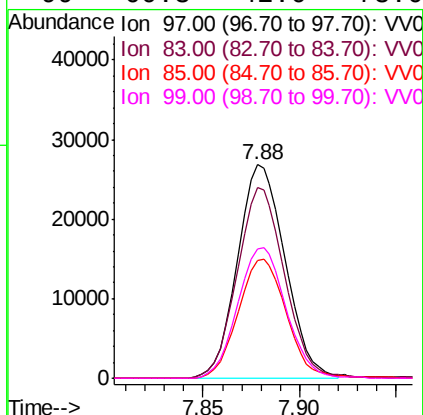
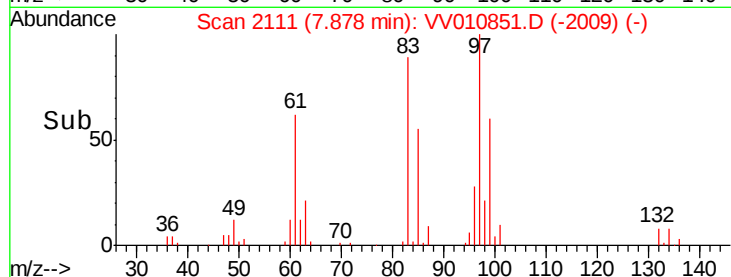
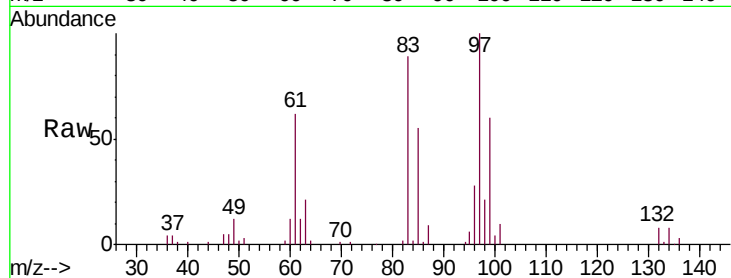




#46
 1,1,2-Trichloroethane
 Concen: 24.538 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

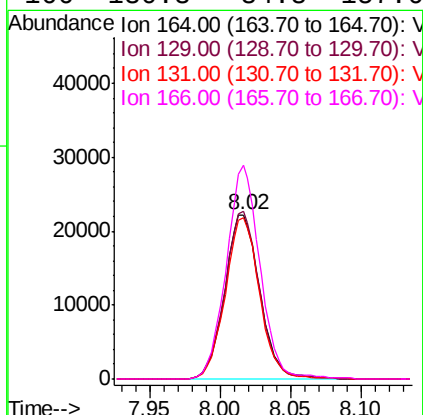
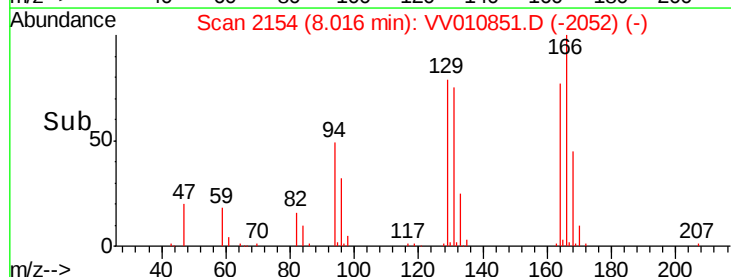
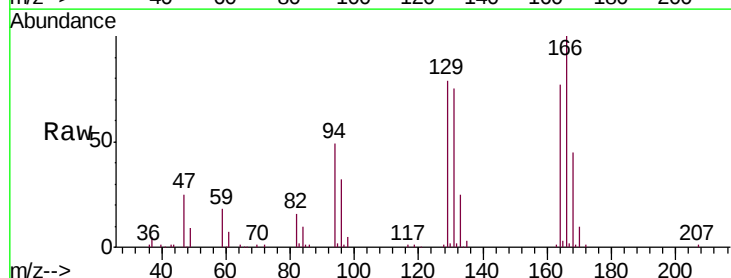
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02596

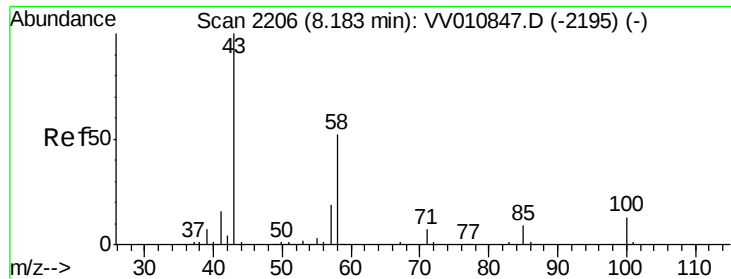
Tgt Ion:	97	Resp:	46005
Ion	Ratio	Lower	Upper
97	100		
83	89.2	57.2	106.2
85	55.3	37.4	69.4
99	60.3	42.0	78.0



#47
 Tetrachloroethene
 Concen: 23.545 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

Tgt Ion:	164	Resp:	38539
Ion	Ratio	Lower	Upper
164	100		
129	102.3	67.6	125.6
131	98.1	65.1	120.9
166	130.3	84.8	157.6

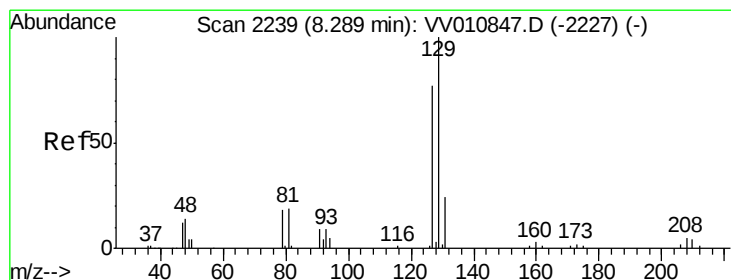
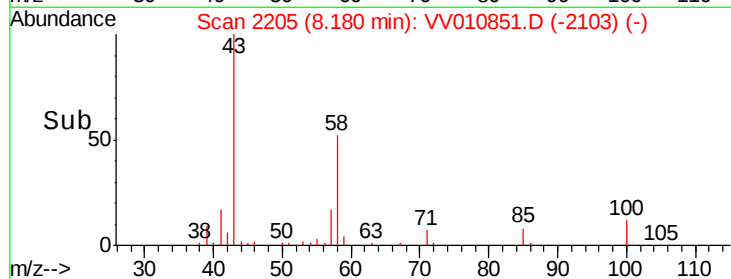
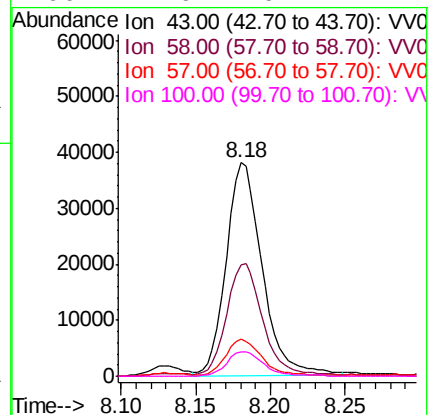
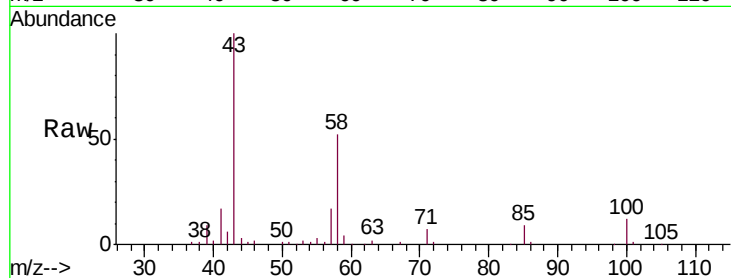




#49
2-Hexanone
Concen: 52.505 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

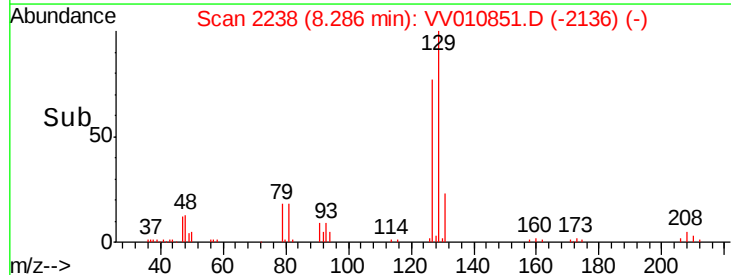
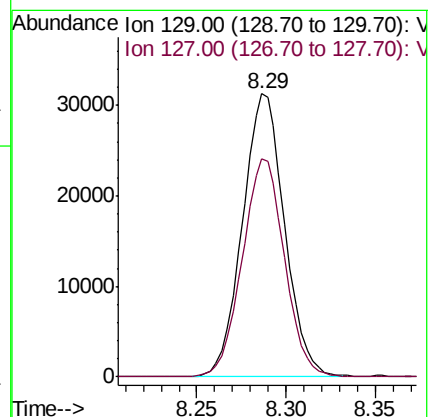
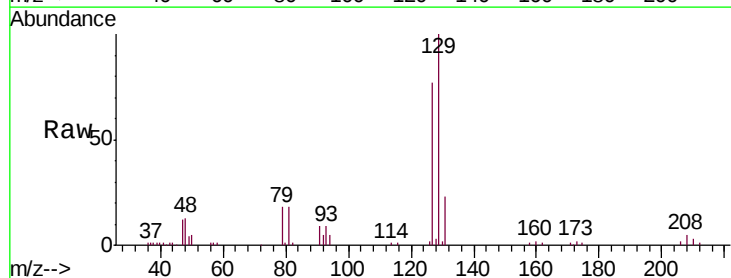
Instrument :
MSVOA_V
ClientSampleId :
VSTD02596

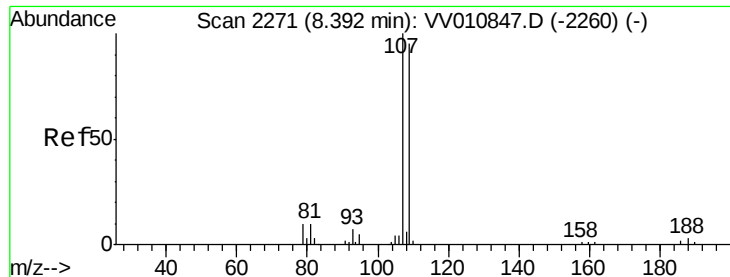
Tgt Ion:	43	Resp:	63751
Ion	Ratio	Lower	Upper
43	100		
58	51.9	41.0	61.6
57	16.8	14.3	21.5
100	11.9	9.4	14.2



#50
Dibromochloromethane
Concen: 24.695 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

Tgt Ion:	129	Resp:	51498
Ion	Ratio	Lower	Upper
129	100		
127	76.9	53.8	100.0





#51

1,2-Dibromoethane

Concen: 24.812 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02596

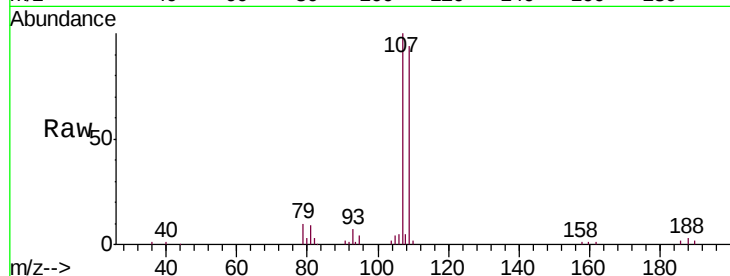
Tgt Ion:107 Resp: 43825

Ion Ratio Lower Upper

107 100

109 94.0 66.7 123.9

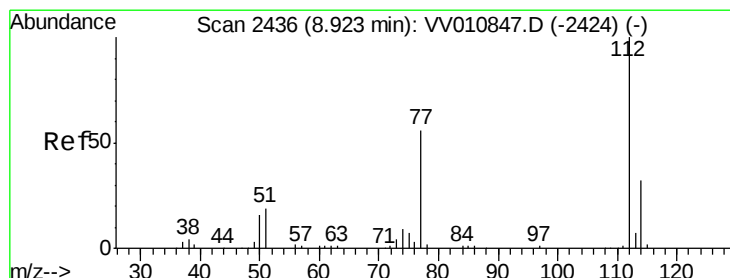
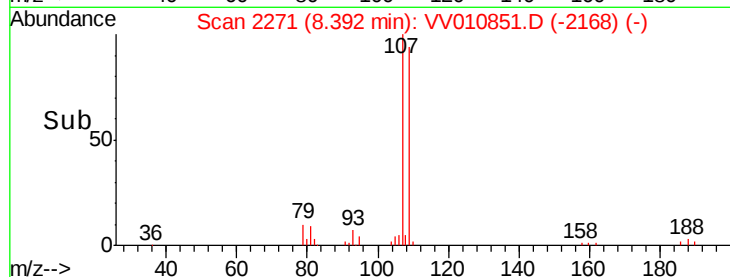
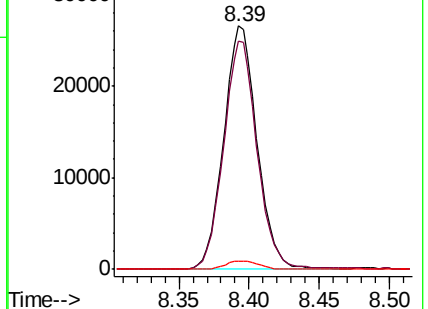
188 3.4 2.7 4.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 23.057 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

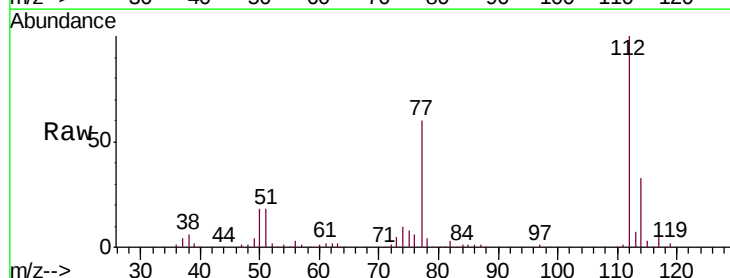
Tgt Ion:112 Resp: 149190

Ion Ratio Lower Upper

112 100

77 60.3 45.4 68.0

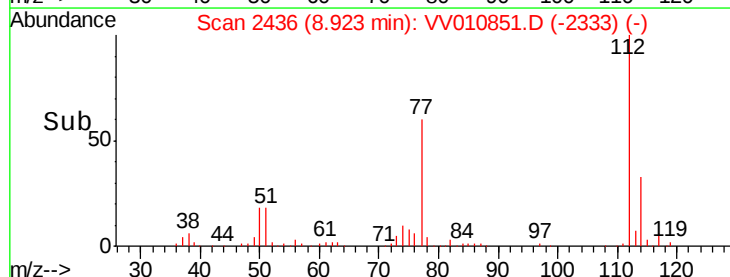
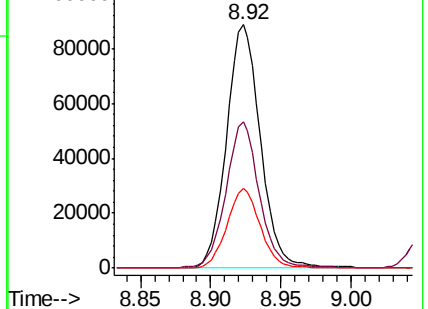
114 32.6 22.4 41.6

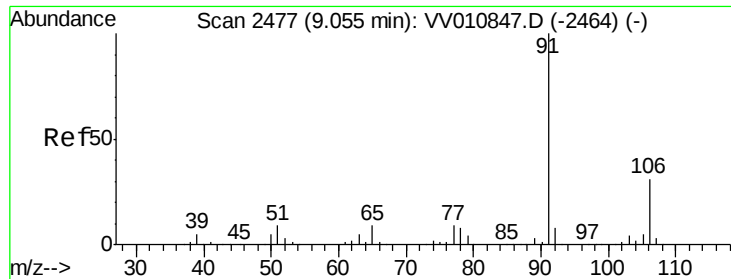


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 23.847 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

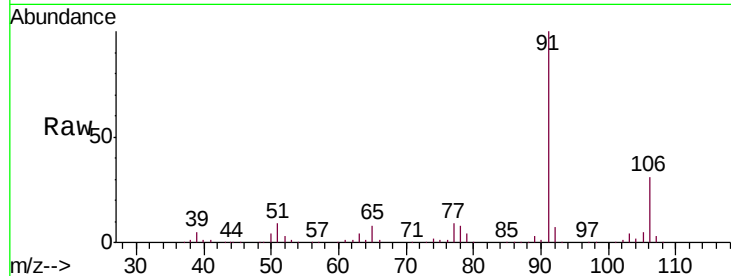
VSTD02596

Tgt Ion: 91 Resp: 248205

Ion Ratio Lower Upper

91 100

106 30.7 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV010847.D (-2464) (-)

Ion 106.00 (105.70 to 106.70): VV010847.D (-2464) (-)

9.05

150000

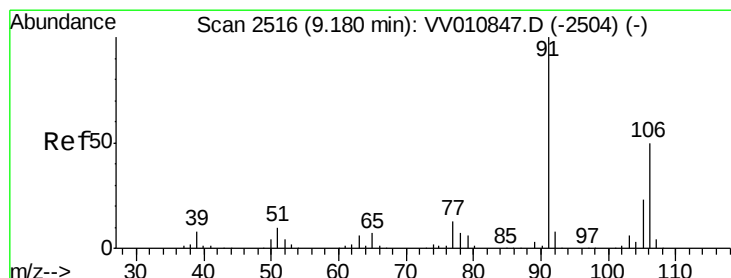
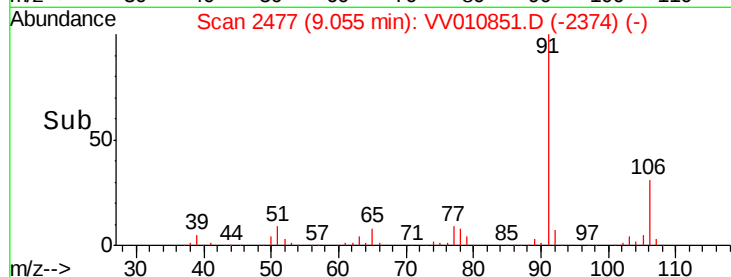
100000

50000

0

9.00 9.05 9.10 9.15

Time-->



#54

m,p-Xylene

Concen: 22.818 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV010851.D

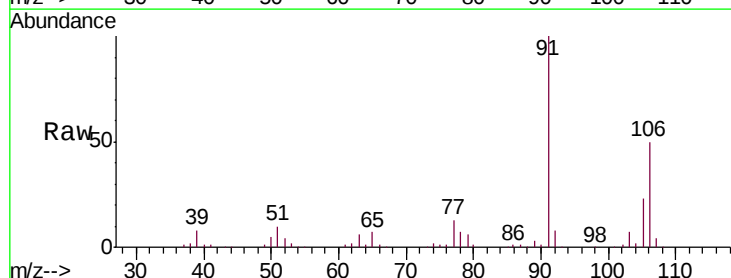
Acq: 13 May 2019 23:23

Tgt Ion: 106 Resp: 93575

Ion Ratio Lower Upper

106 100

91 201.0 140.6 261.0



Abundance Ion 106.00 (105.70 to 106.70): VV010847.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV010847.D (-2504) (-)

9.18

120000

100000

80000

60000

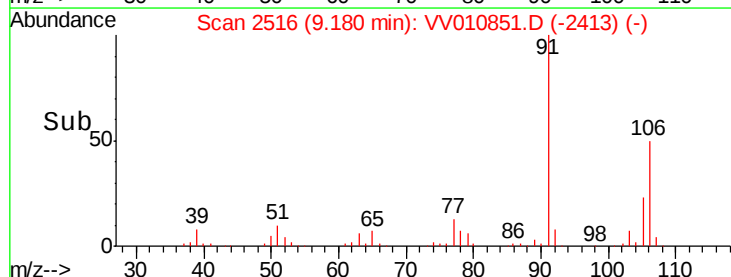
40000

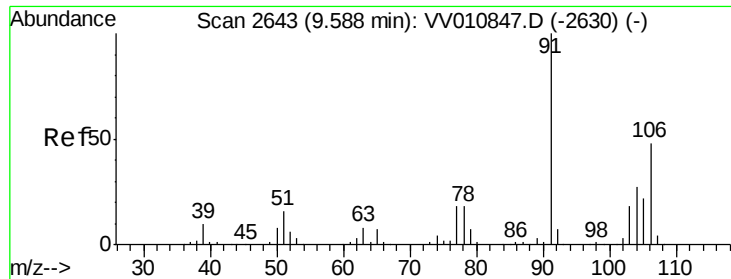
20000

0

9.10 9.15 9.20 9.25 9.30

Time-->

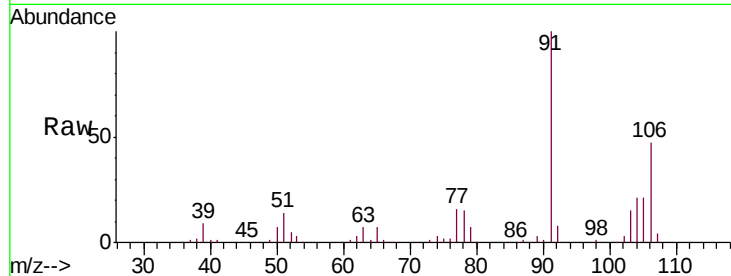




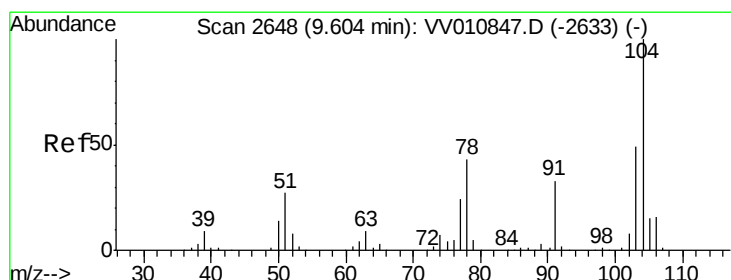
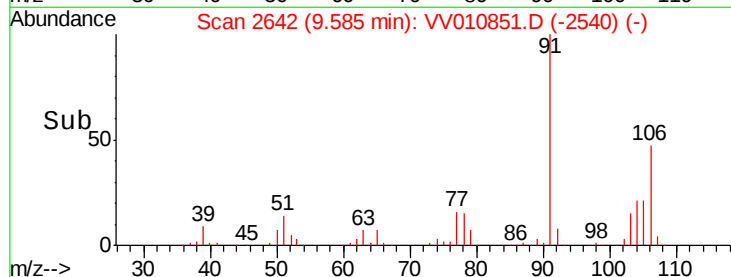
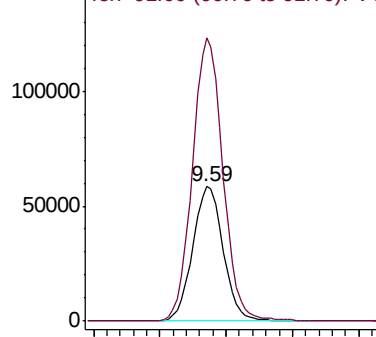
#55
o-xylene
Concen: 23.270 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD02596

Tgt Ion:106 Resp: 93756
Ion Ratio Lower Upper
106 100
91 210.7 146.9 272.9

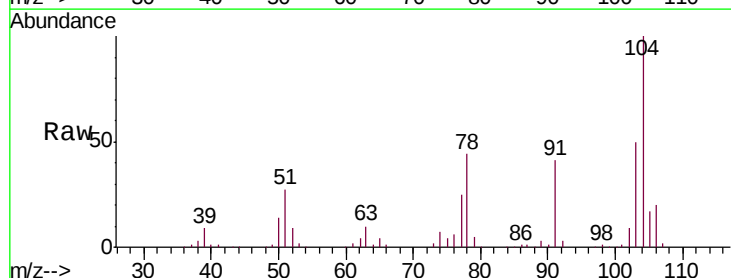


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

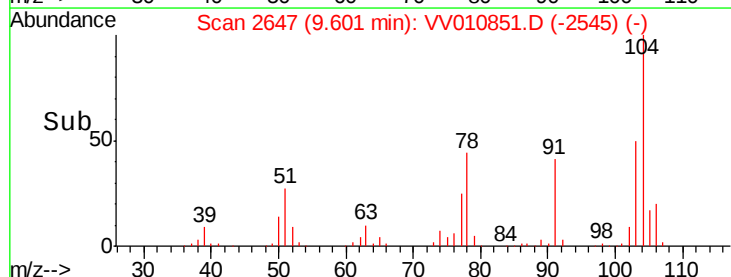
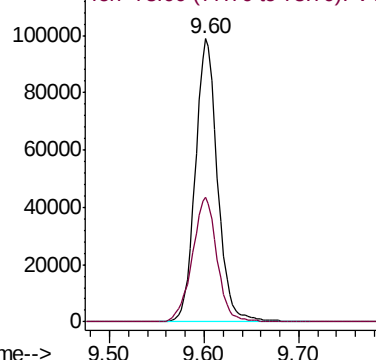


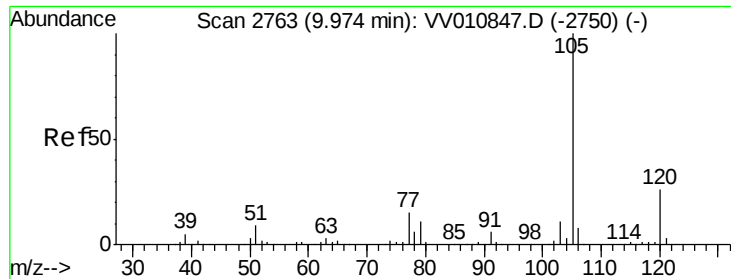
#56
Styrene
Concen: 23.349 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. -0.00 min
Lab File: VV010851.D
Acq: 13 May 2019 23:23

Tgt Ion:104 Resp: 161308
Ion Ratio Lower Upper
104 100
78 44.2 30.0 55.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.979 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02596

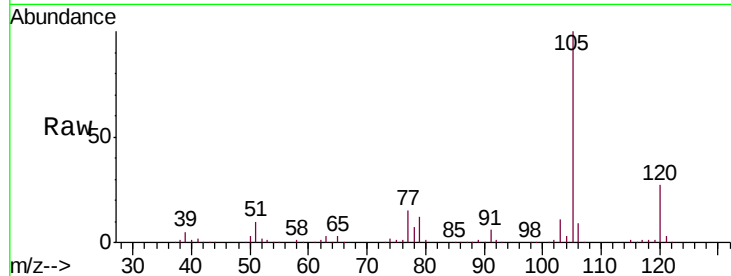
Tgt Ion: 105 Resp: 241840

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.4

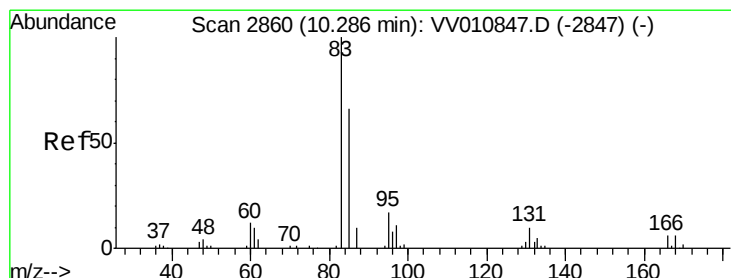
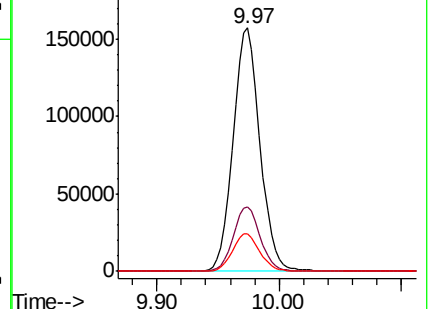
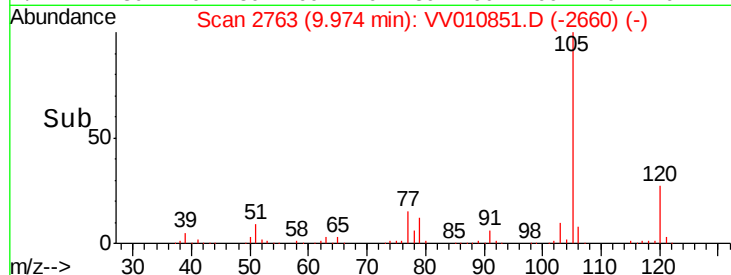
77 15.6 12.2 18.4



Abundance Ion 105.00 (104.70 to 105.70): VV010851.D (-2660) (-)

Ion 120.00 (119.70 to 120.70): VV010851.D (-2660) (-)

Ion 77.00 (76.70 to 77.70): VV010851.D (-2660) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 24.311 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

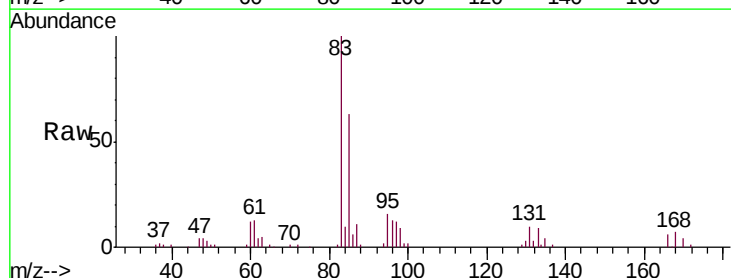
Tgt Ion: 83 Resp: 60194

Ion Ratio Lower Upper

83 100

85 63.1 46.7 86.7

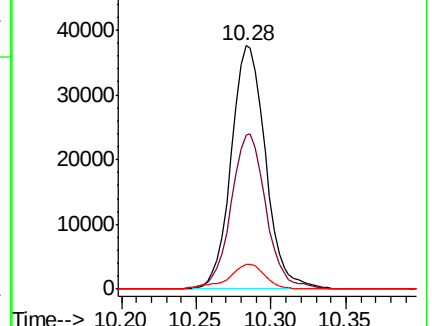
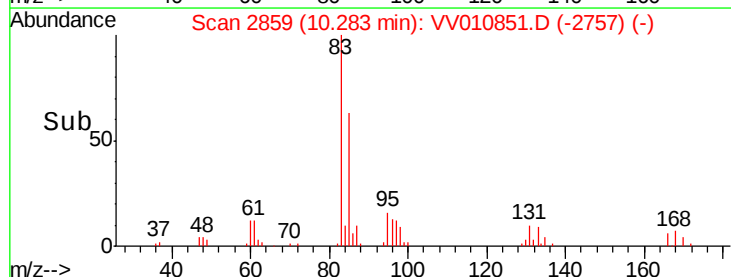
131 10.2 8.5 12.7

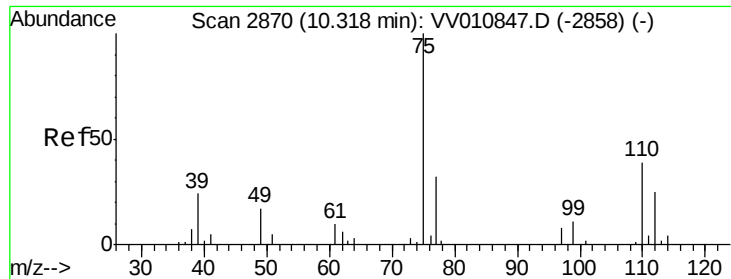


Abundance Ion 83.00 (82.70 to 83.70): VV010851.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV010851.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV010851.D (-2757) (-)





#59

1,2,3-Trichloropropane

Concen: 25.611 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

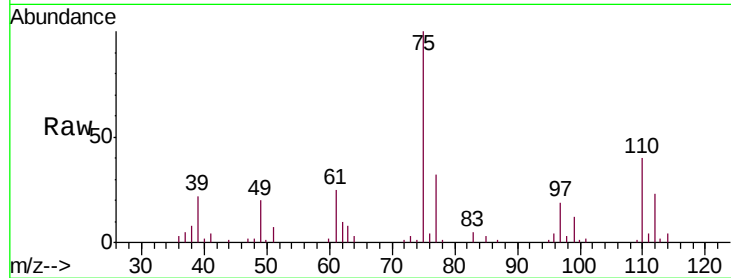
VSTD02596

Tgt Ion: 75 Resp: 45946

Ion Ratio Lower Upper

75 100

77 31.7 26.4 39.6

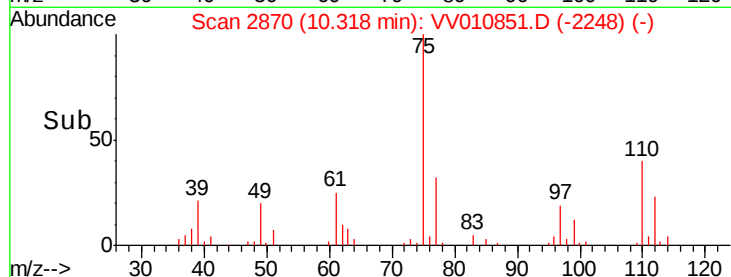


Abundance Ion 75.00 (74.70 to 75.70): VV010847.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV010847.D (-2858) (-)

10.32

Time-->

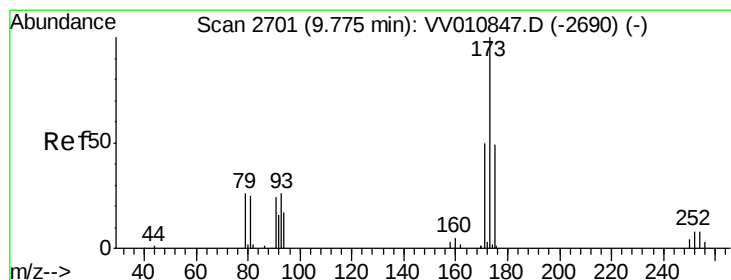


Abundance Ion 75.00 (74.70 to 75.70): VV010851.D (-2248) (-)

Ion 77.00 (76.70 to 77.70): VV010851.D (-2248) (-)

10.32

Time-->



#62

Bromoform

Concen: 28.469 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

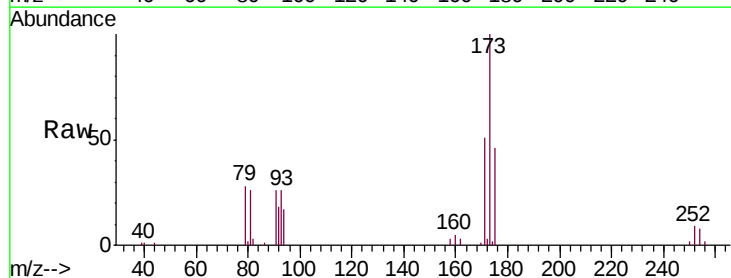
Tgt Ion: 173 Resp: 28451

Ion Ratio Lower Upper

173 100

175 48.6 38.1 57.1

254 8.5 5.4 8.2#



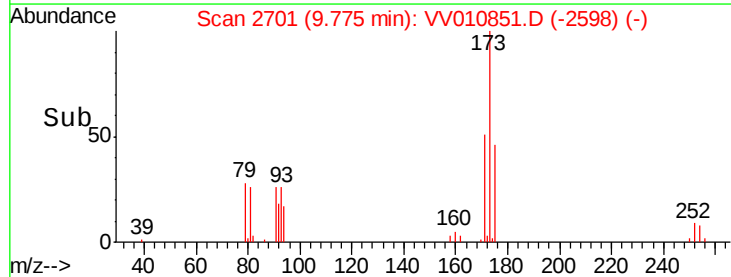
Abundance Ion 173.00 (172.70 to 173.70): VV010847.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV010847.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV010847.D (-2690) (-)

9.78

Time-->



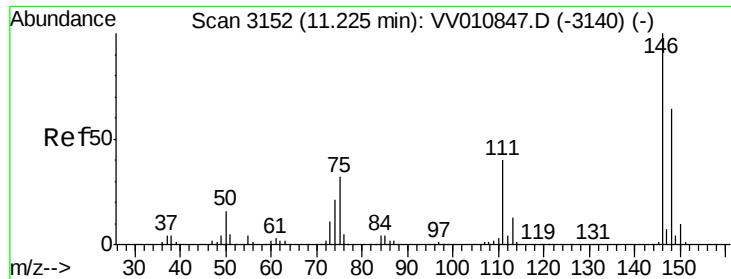
Abundance Ion 173.00 (172.70 to 173.70): VV010851.D (-2598) (-)

Ion 175.00 (174.70 to 175.70): VV010851.D (-2598) (-)

Ion 254.00 (253.70 to 254.70): VV010851.D (-2598) (-)

9.78

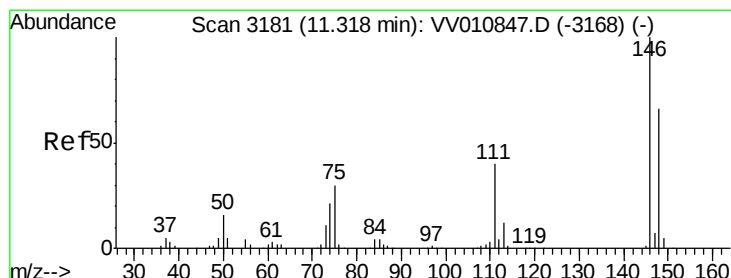
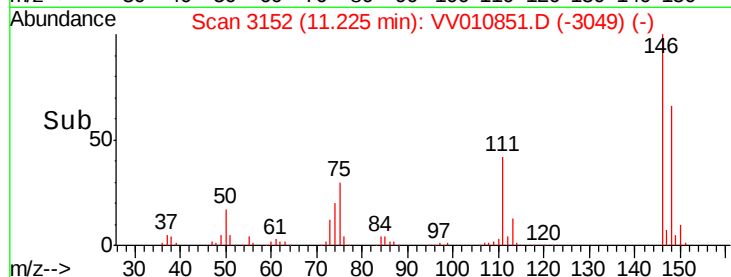
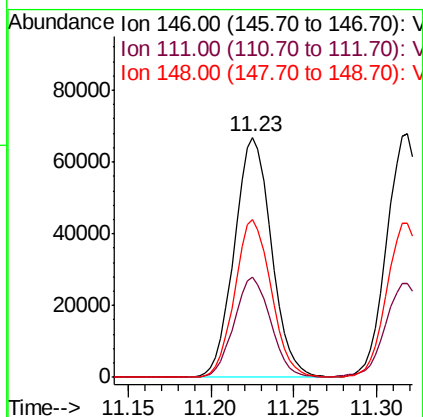
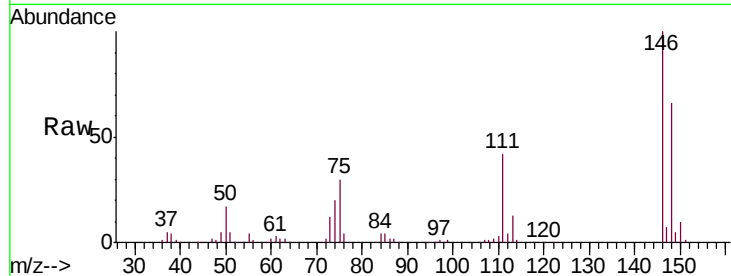
Time-->



#63
 1,3-Dichlorobenzene
 Concen: 23.577 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

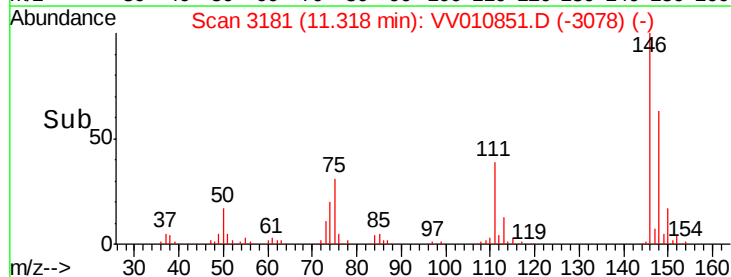
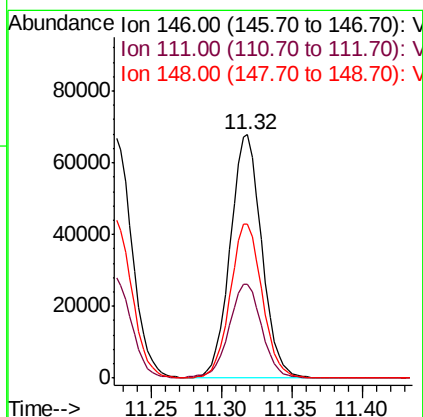
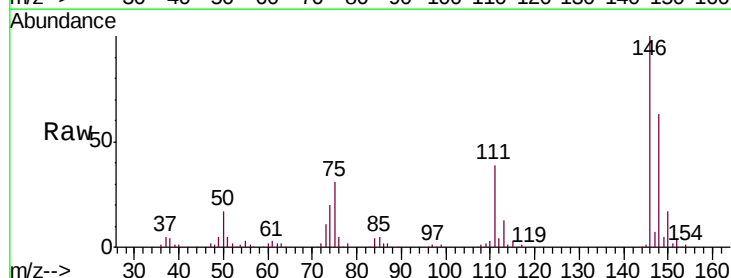
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02596

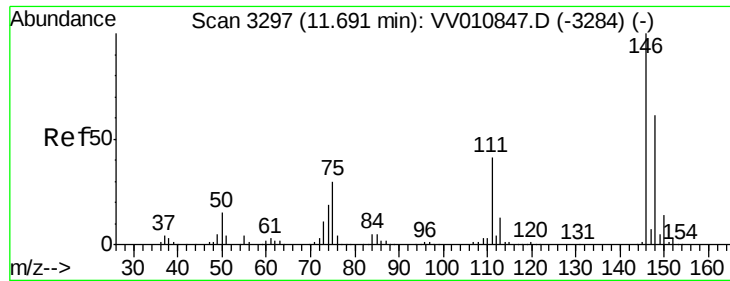
Tgt Ion:146 Resp: 104296
 Ion Ratio Lower Upper
 146 100
 111 41.5 28.1 52.1
 148 65.9 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 23.100 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

Tgt Ion:146 Resp: 105859
 Ion Ratio Lower Upper
 146 100
 111 38.8 27.9 51.7
 148 63.4 45.9 85.3





#65

1,2-Dichlorobenzene

Concen: 22.996 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02596

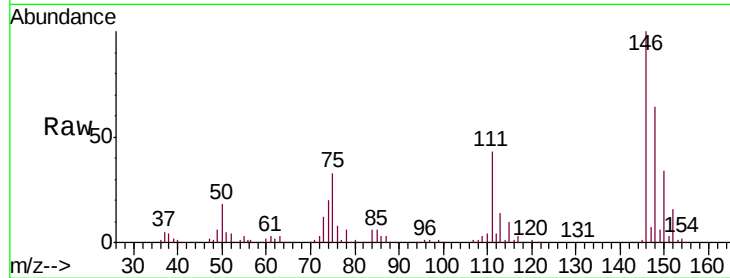
Tgt Ion:146 Resp: 101490

Ion Ratio Lower Upper

146 100

111 43.0 33.4 50.0

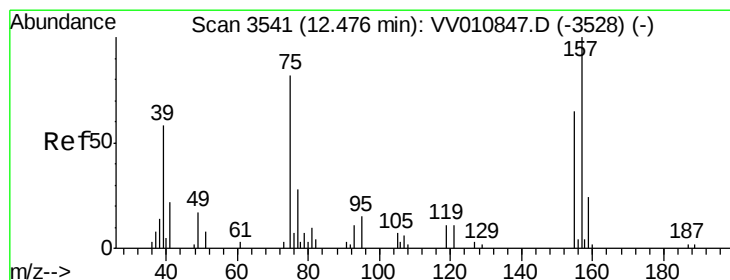
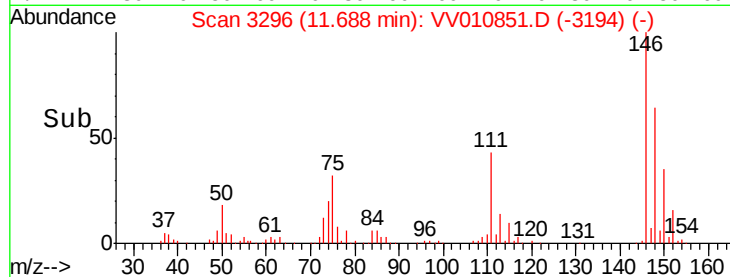
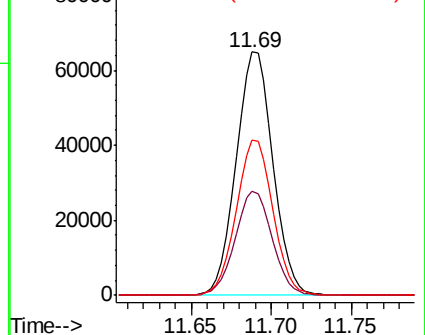
148 63.9 49.1 73.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 26.168 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

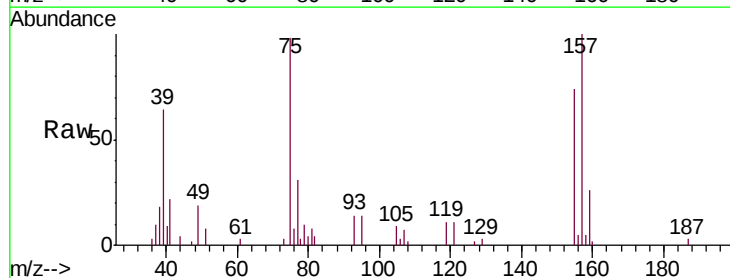
Tgt Ion: 75 Resp: 8649

Ion Ratio Lower Upper

75 100

157 102.2 97.6 146.4

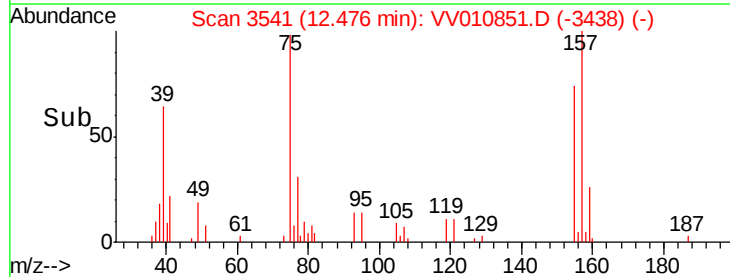
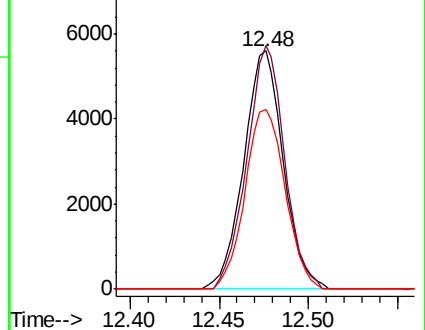
155 75.5 63.6 95.4

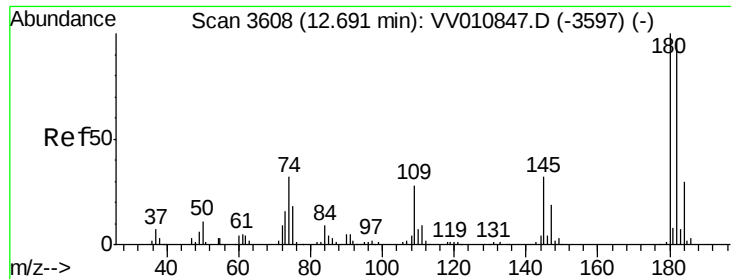


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

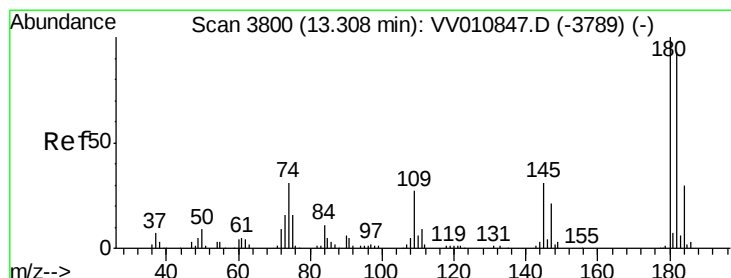
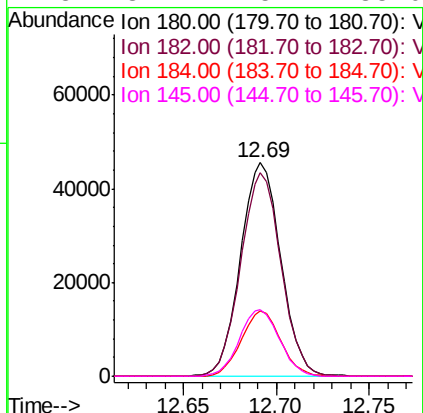
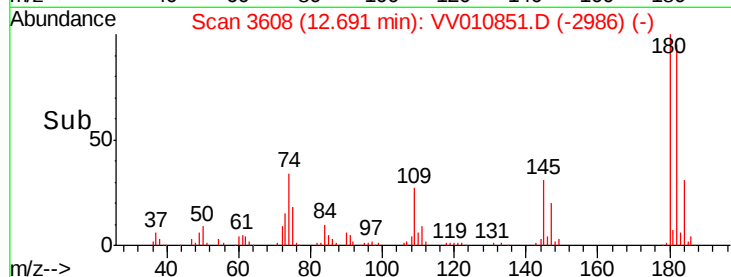
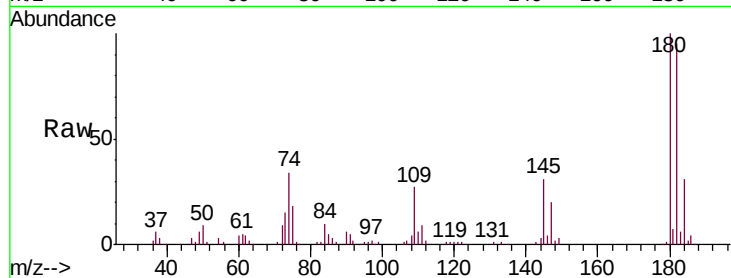




#67
 1,3,5-Trichlorobenzene
 Concen: 21.397 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

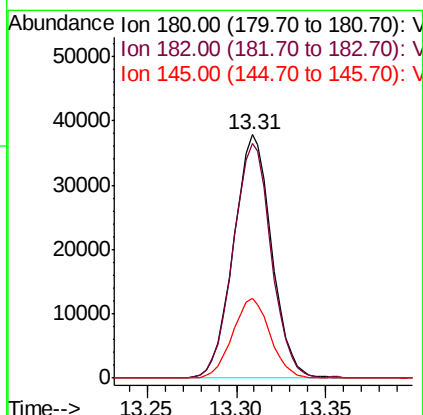
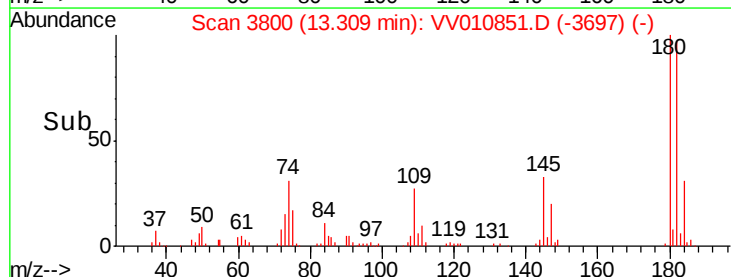
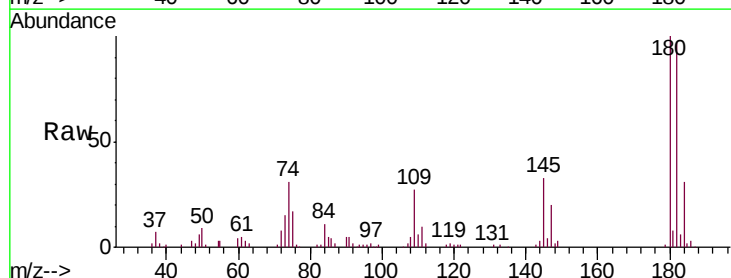
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02596

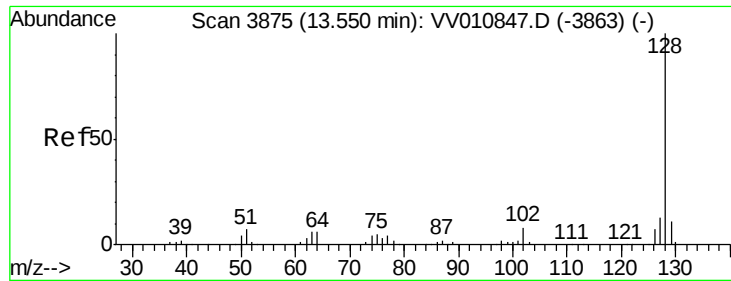
Tgt Ion:180 Resp: 68979
 Ion Ratio Lower Upper
 180 100
 182 95.2 75.9 113.9
 184 30.0 24.1 36.1
 145 31.1 25.4 38.0



#68
 1,2,4-trichlorobenzene
 Concen: 21.626 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV010851.D
 Acq: 13 May 2019 23:23

Tgt Ion:180 Resp: 56296
 Ion Ratio Lower Upper
 180 100
 182 96.5 74.2 111.2
 145 32.2 25.4 38.0





#69

Naphthalene

Concen: 24.847 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02596

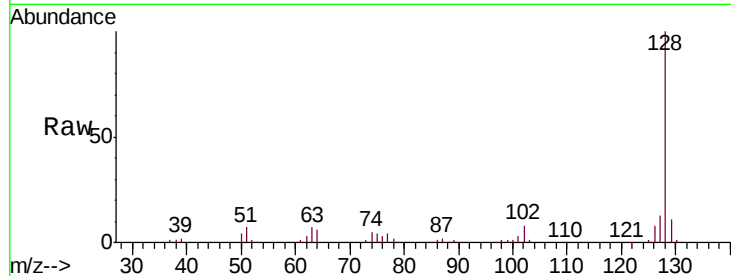
Tgt Ion:128 Resp: 135490

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

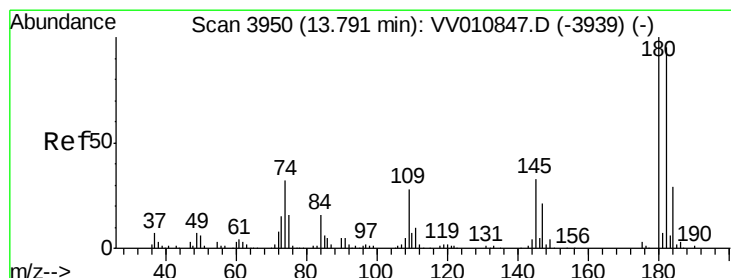
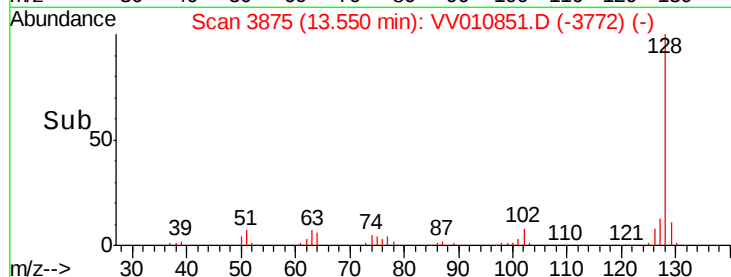
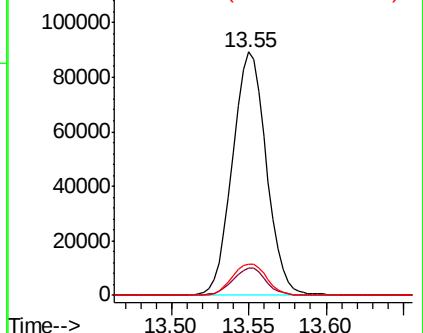
127 13.2 10.5 15.7



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: 22.634 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV010851.D

Acq: 13 May 2019 23:23

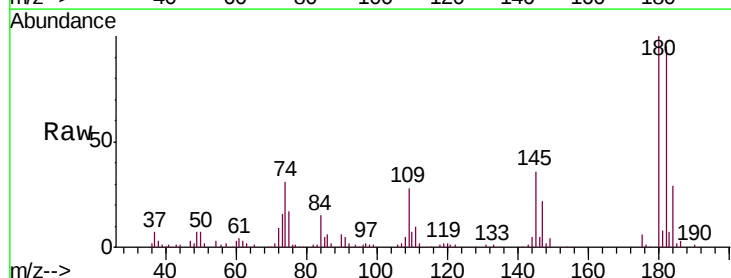
Tgt Ion:180 Resp: 56078

Ion Ratio Lower Upper

180 100

182 95.4 75.8 113.6

145 35.3 26.8 40.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

