

Data File : VV010989.D
Acq On : 21 May 2019 07:14
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02560

Quant Time: May 22 04:56:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 04:53:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	144777	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	146029	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	64536	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	32869	19.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.64%
7) Chloroethane-d5	1.55	69	21767	19.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.92%
10) 1,1-Dichloroethene-d2	2.11	63	63206	19.92	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.68%
20) 2-Butanone-d5	3.93	46	30136	52.91	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.82%
24) Chloroform-d	4.39	84	95174	25.38	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.52%
26) 1,2-Dichloroethane-d4	5.07	65	55198	24.98	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.92%
29) Benzene-d6	5.09	84	201296	25.25	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	101.00%
33) 1,2-Dichloropropane-d6	6.11	67	62155	24.54	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.16%
37) Toluene-d8	7.36	98	191926	25.90	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	103.60%
38) trans-1,3-Dichloropropene-	7.66	79	23760	22.84	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.36%
39) 2-Hexanone-d5	8.13	63	21361	45.21	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.42%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	62541	24.73	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.92%
61) 1,2-Dichlorobenzene-d4	11.67	152	67261	25.67	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.68%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.13	85	41003	19.184	ug/L 99
3) Chloromethane	1.24	50	43424	22.429	ug/L 98
5) Vinyl chloride	1.31	62	42768	21.994	ug/L 99
6) Bromomethane	1.50	94	13063	19.267	ug/L 99
8) Chloroethane	1.57	64	21511	22.108	ug/L 97
9) Trichlorofluoromethane	1.74	101	64353	20.765	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	2.12	101	36399	20.596	ug/L 96
12) 1,1-Dichloroethene	2.12	96	32344	21.170	ug/L 95
13) Acetone	2.19	43	19148	34.864	ug/L 99
14) Carbon disulfide	2.30	76	89713	20.969	ug/L 99
15) Methyl Acetate	2.45	43	27387	25.953	ug/L 98
16) Methylene chloride	2.52	84	62512	25.160	ug/L 96
17) Methyl tert-butyl Ether	2.80	73	138873	25.689	ug/L 99
18) trans-1,2-Dichloroethene	2.78	96	48893	23.198	ug/L 98
19) 1,1-Dichloroethane	3.22	63	97733	25.467	ug/L 98
21) 2-Butanone	4.01	43	37088	49.347	ug/L 96
22) cis-1,2-Dichloroethene	3.95	96	60451	25.760	ug/L 97

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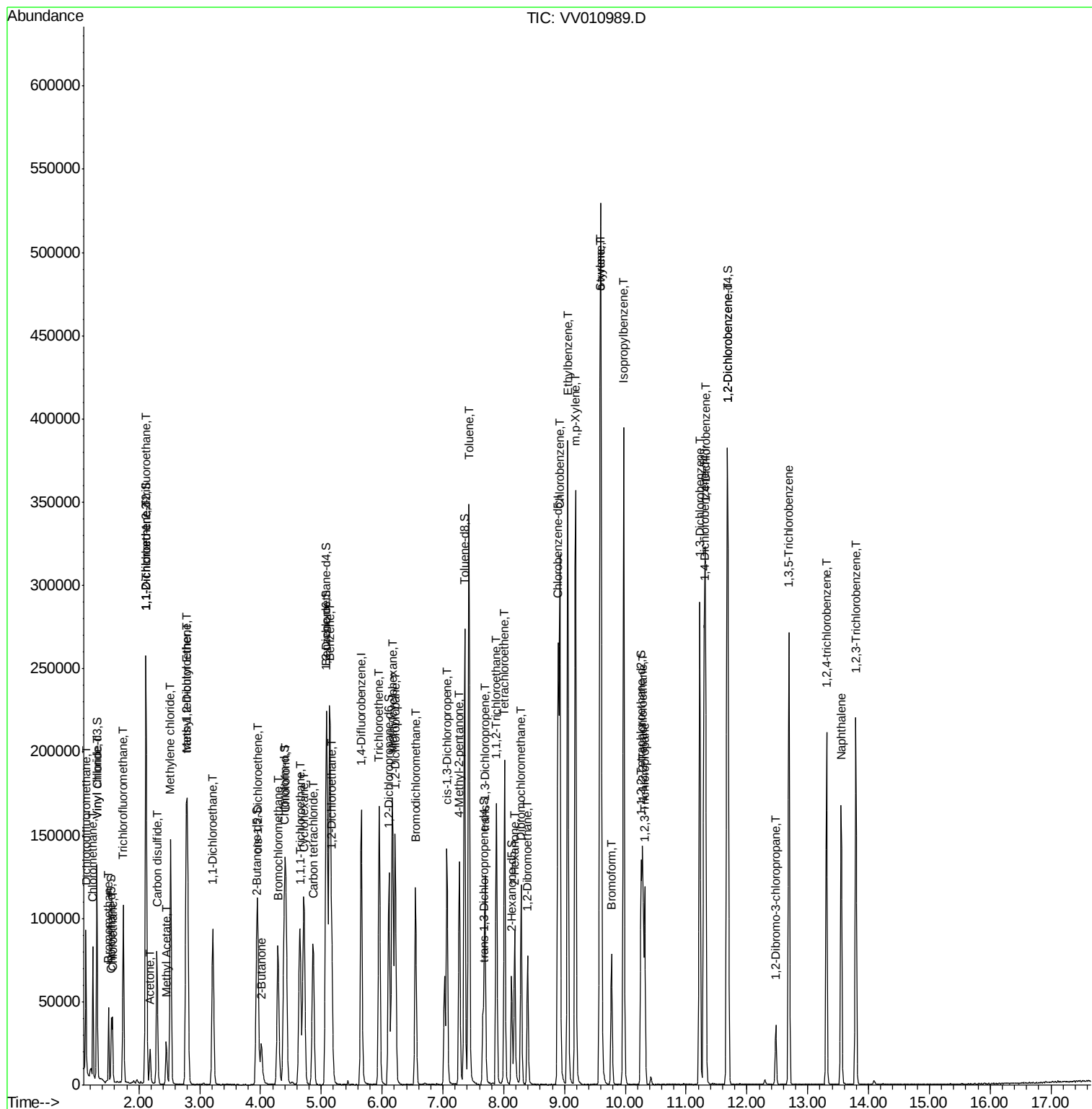
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	29949	26.930	ug/L	95
25) Chloroform	4.42	83	107181	24.682	ug/L	100
27) 1,2-Dichloroethane	5.17	62	69779	26.140	ug/L	99
30) Cyclohexane	4.72	56	60047	19.789	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	77860	23.703	ug/L	99
32) Carbon tetrachloride	4.87	117	65767	21.955	ug/L	99
34) Benzene	5.14	78	228355	27.127	ug/L	100
35) Trichloroethene	5.95	95	58079	24.971	ug/L	99
36) Methylcyclohexane	6.17	83	74630	21.704	ug/L	99
40) 1,2-Dichloropropane	6.22	63	63077	28.512	ug/L	98
41) Bromodichloromethane	6.55	83	77215	26.113	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	83372	25.318	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	82618	52.096	ug/L	99
44) Toluene	7.43	91	252882	27.070	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	69041	24.890	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	52939	28.082	ug/L	99
47) Tetrachloroethene	8.02	164	42213	23.251	ug/L	99
49) 2-Hexanone	8.18	43	55658	48.068	ug/L	98
50) Dibromochloromethane	8.29	129	61179	27.572	ug/L	99
51) 1,2-Dibromoethane	8.39	107	50103	27.483	ug/L	97
52) Chlorobenzene	8.92	112	173294	27.064	ug/L	99
53) Ethylbenzene	9.05	91	268124	26.341	ug/L	99
54) m,p-Xylene	9.18	106	103837	26.173	ug/L	97
55) o-xylene	9.59	106	104411	27.585	ug/L	100
56) Styrene	9.60	104	185784	28.480	ug/L	98
57) Isopropylbenzene	9.97	105	250309	25.068	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	66305	26.712	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	48092	26.375	ug/L	99
62) Bromoform	9.77	173	33892	29.584	ug/L	97
63) 1,3-Dichlorobenzene	11.23	146	118797	26.989	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	121480	26.797	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	122382	28.674	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	9087	26.801	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	79050	24.482	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	60495	23.704	ug/L	98
69) Naphthalene	13.55	128	131457	25.696	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	62650	25.145	ug/L	99

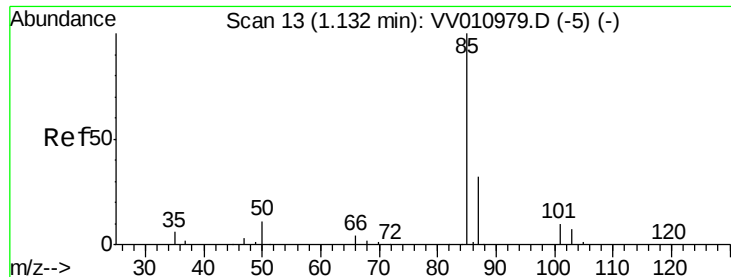
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 19.184 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

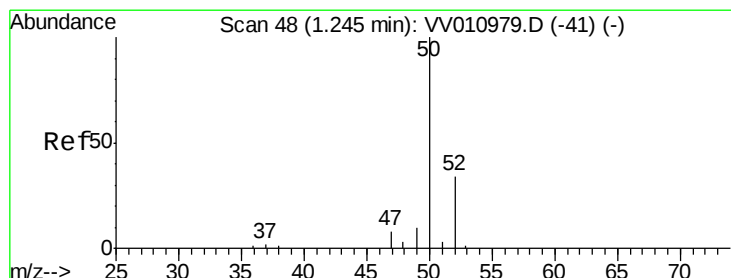
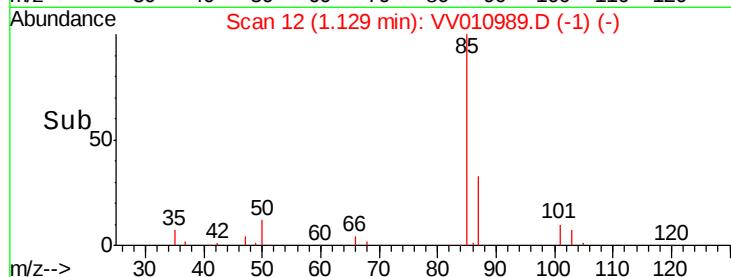
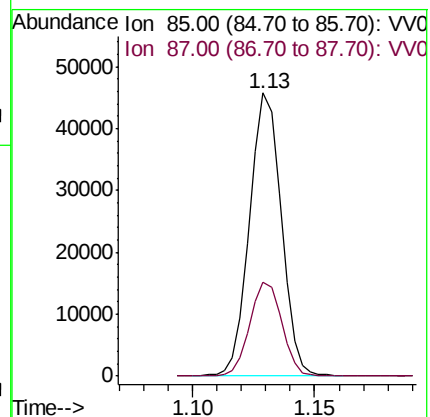
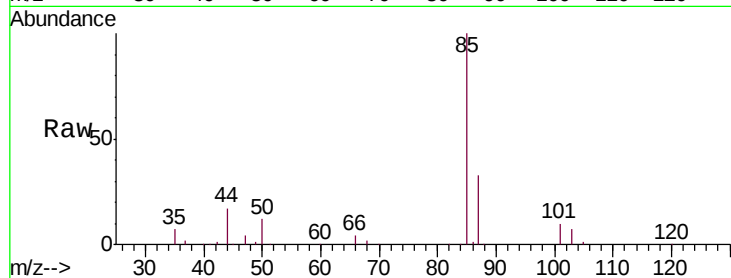
VSTD02560

Tgt Ion: 85 Resp: 41003

Ion Ratio Lower Upper

85 100

87 33.6 23.2 43.2



#3

Chloromethane

Concen: 22.429 ug/L

RT: 1.24 min Scan# 48

Delta R.T. 0.00 min

Lab File: VV010989.D

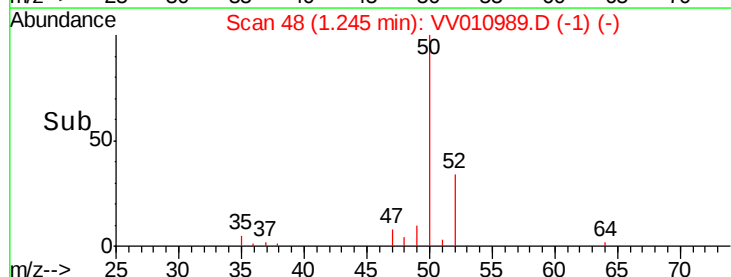
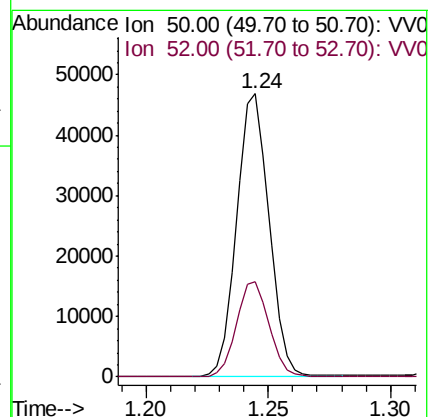
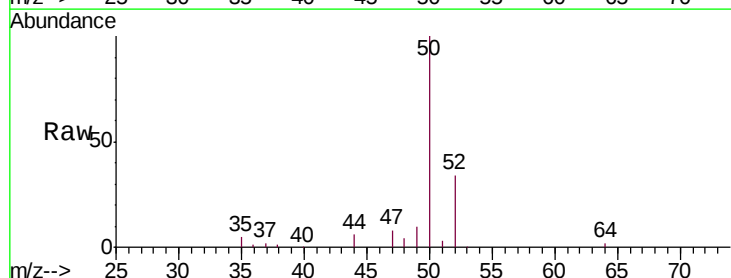
Acq: 21 May 2019 07:14

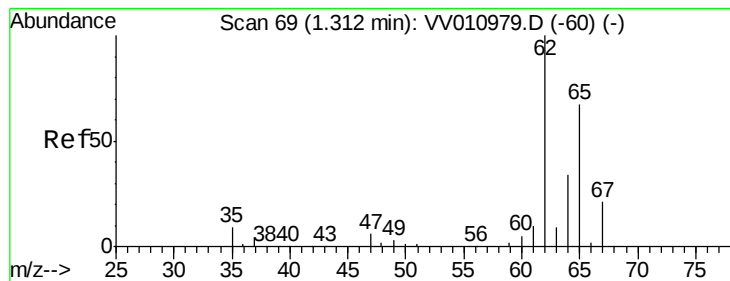
Tgt Ion: 50 Resp: 43424

Ion Ratio Lower Upper

50 100

52 33.7 22.7 42.3





#5

Vinyl chloride

Concen: 21.994 ug/L

RT: 1.31 min Scan# 69

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

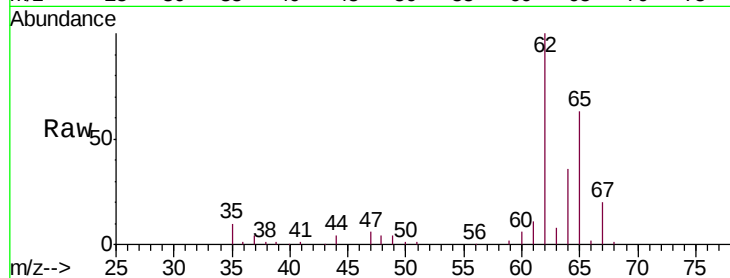
VSTD02560

Tgt Ion: 62 Resp: 42768

Ion Ratio Lower Upper

62 100

64 35.8 24.5 45.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.31

40000

30000

20000

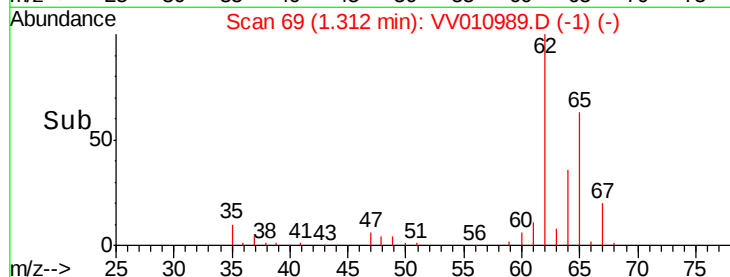
10000

0

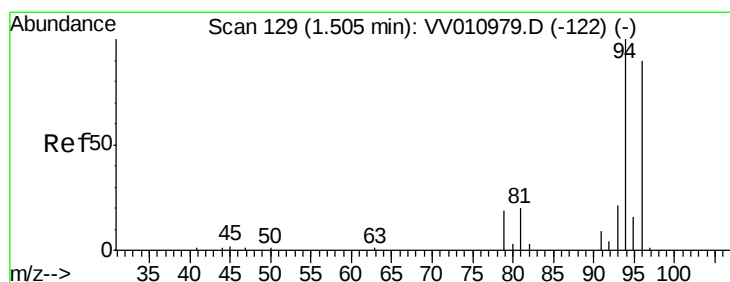
1.25

1.30

1.35



Time-->



#6

Bromomethane

Concen: 19.267 ug/L

RT: 1.50 min Scan# 128

Delta R.T. -0.00 min

Lab File: VV010989.D

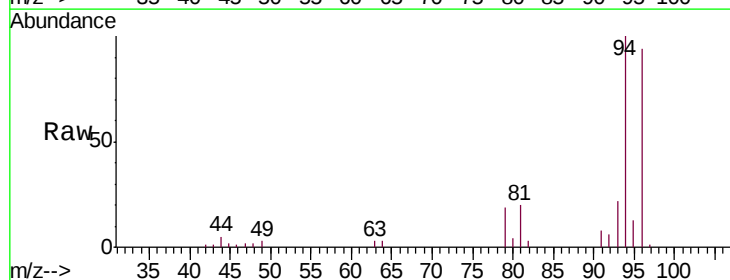
Acq: 21 May 2019 07:14

Tgt Ion: 94 Resp: 13063

Ion Ratio Lower Upper

94 100

96 92.9 9.3 177.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.50

15000

10000

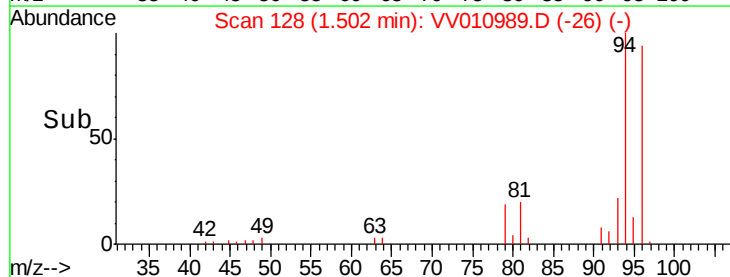
5000

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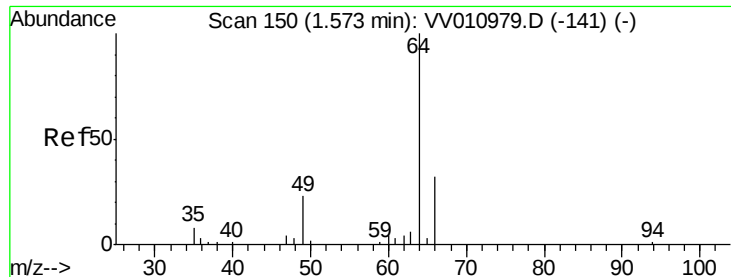
1.48

1.50

1.52



Time-->



#8

Chloroethane

Concen: 22.108 ug/L

RT: 1.57 min Scan# 148

Delta R.T. -0.01 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

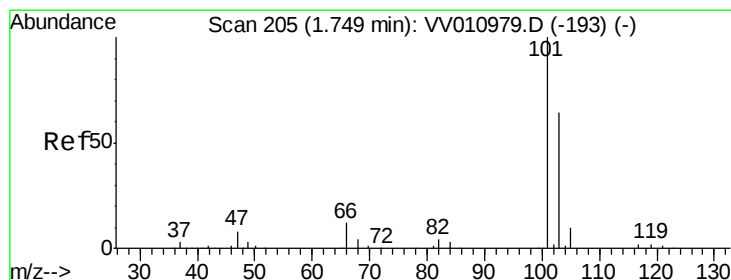
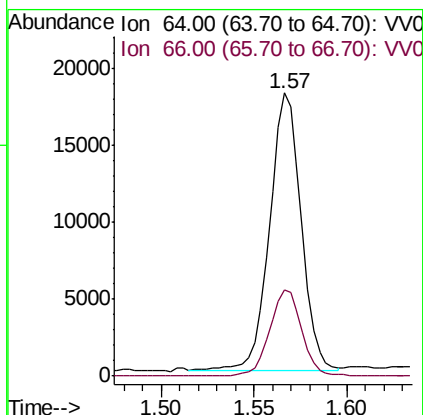
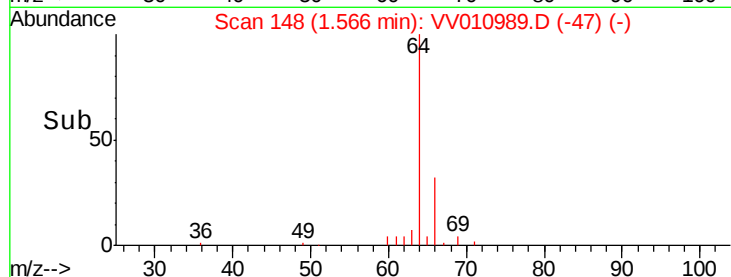
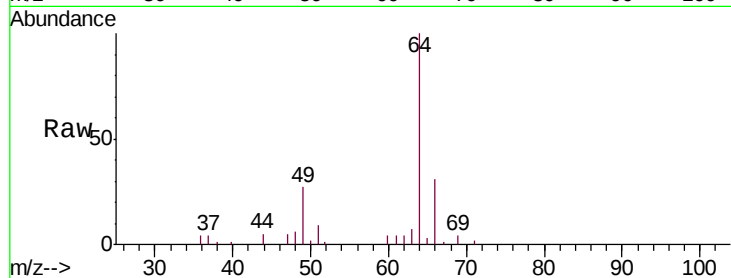
VSTD02560

Tgt Ion: 64 Resp: 21511

Ion Ratio Lower Upper

64 100

66 30.7 20.4 37.8



#9

Trichlorofluoromethane

Concen: 20.765 ug/L

RT: 1.74 min Scan# 203

Delta R.T. -0.01 min

Lab File: VV010989.D

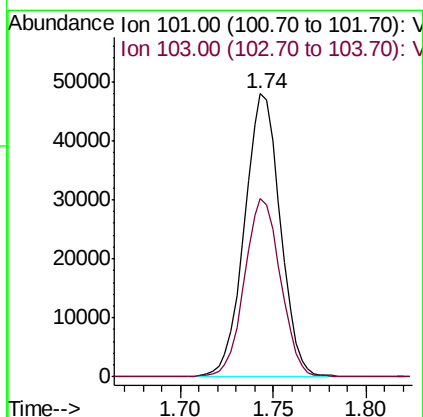
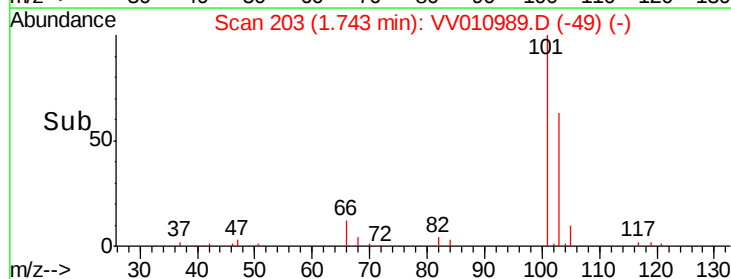
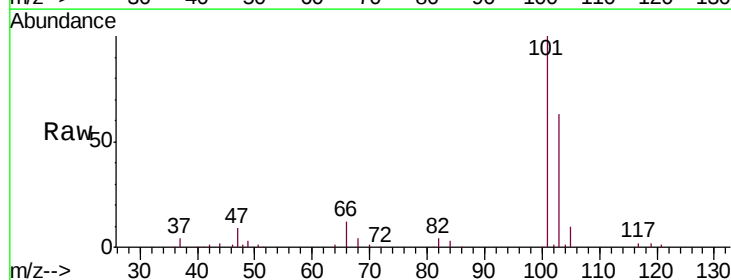
Acq: 21 May 2019 07:14

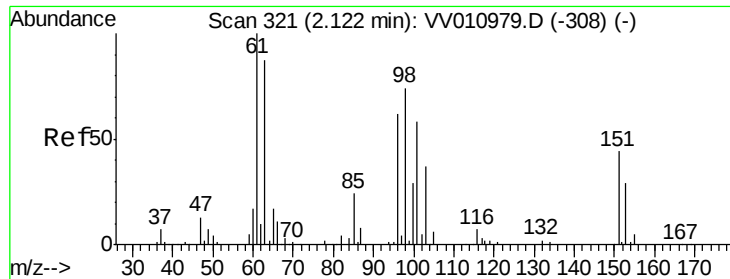
Tgt Ion: 101 Resp: 64353

Ion Ratio Lower Upper

101 100

103 63.5 44.7 82.9





#11

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

Concen: 20.596 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

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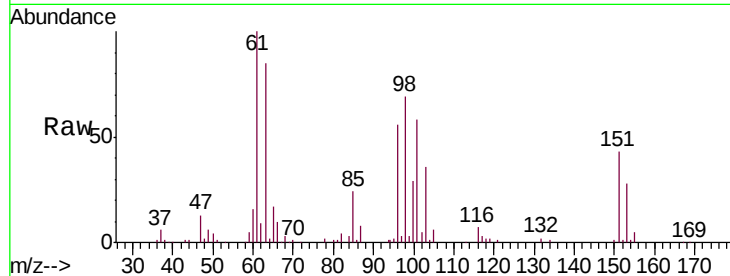
Tgt Ion:101 Resp: 36399

Ion Ratio Lower Upper

101 100

85 41.9 33.9 50.9

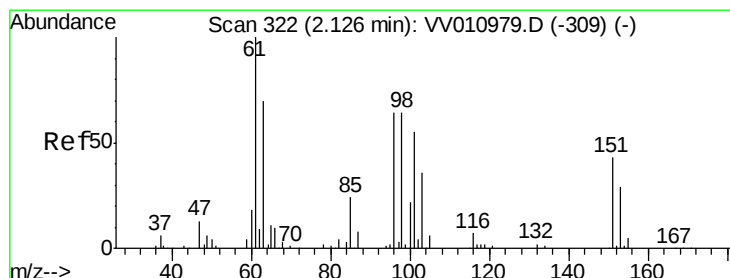
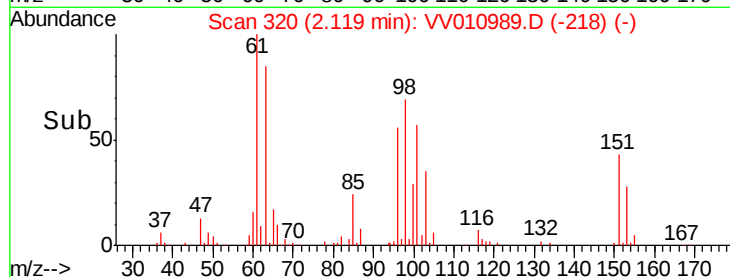
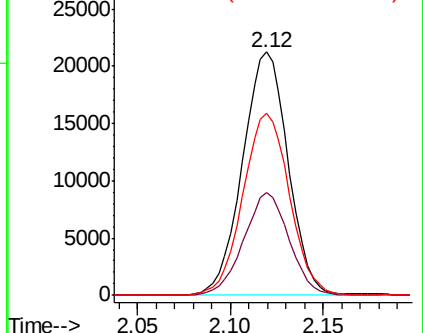
151 76.5 64.7 97.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 21.170 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

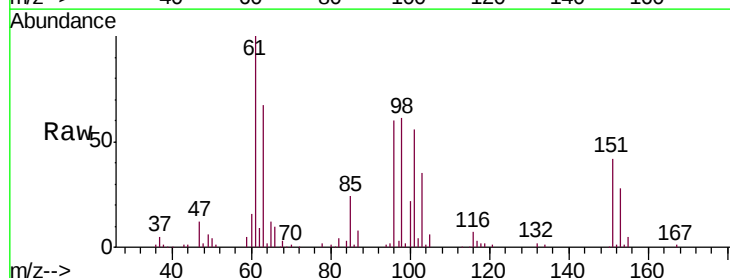
Tgt Ion: 96 Resp: 32344

Ion Ratio Lower Upper

96 100

61 166.4 117.8 218.8

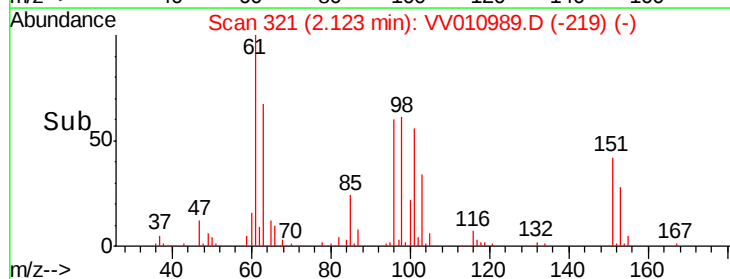
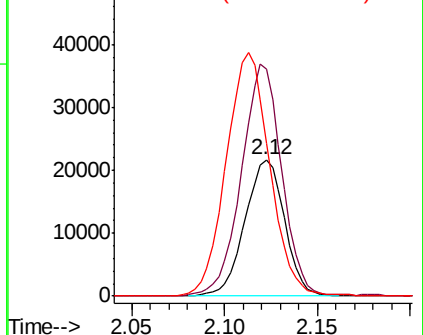
63 111.9 87.1 161.7

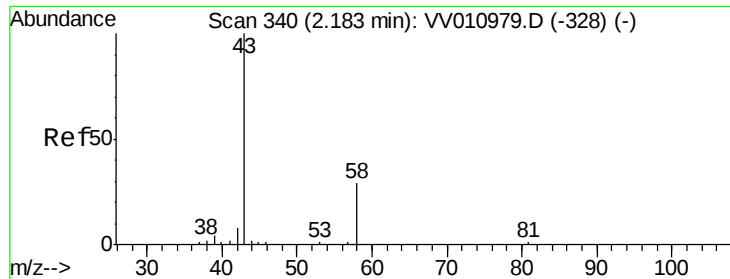


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 34.864 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

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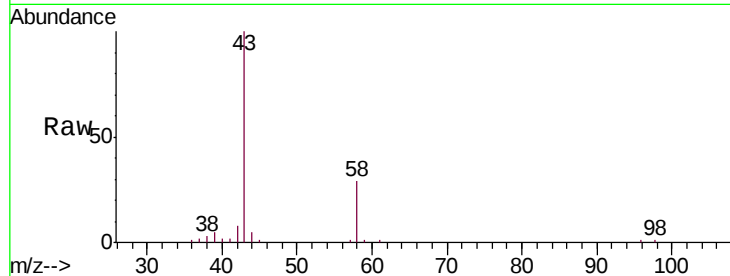
VSTD02560

Tgt Ion: 43 Resp: 19148

Ion Ratio Lower Upper

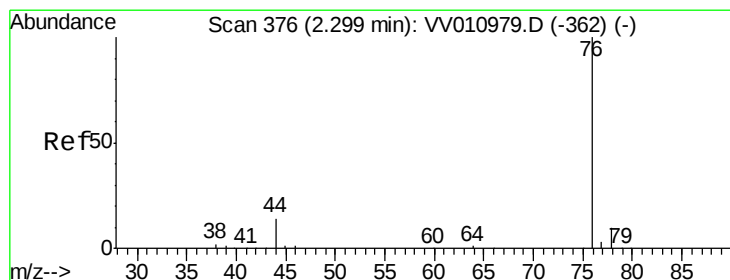
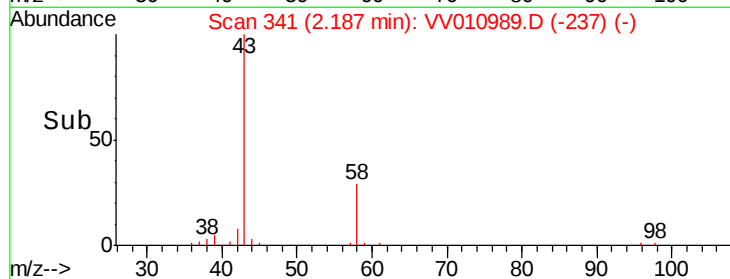
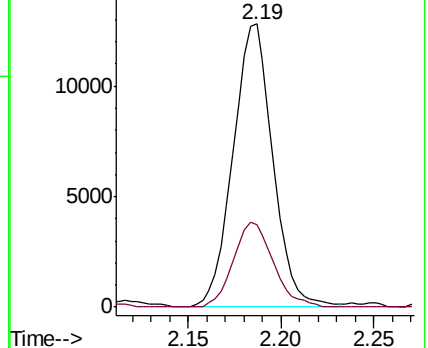
43 100

58 30.0 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV010989.D (-237) (-)

Ion 58.00 (57.70 to 58.70): VV010989.D (-237) (-)



#14

Carbon disulfide

Concen: 20.969 ug/L

RT: 2.30 min Scan# 375

Delta R.T. -0.00 min

Lab File: VV010989.D

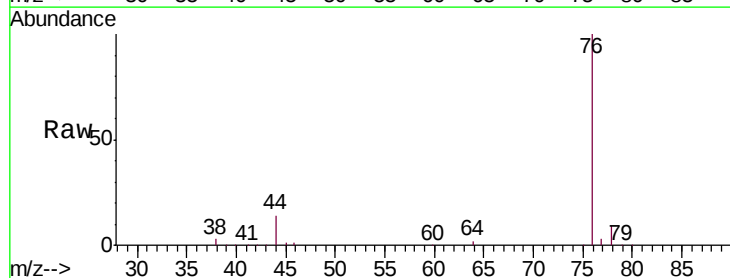
Acq: 21 May 2019 07:14

Tgt Ion: 76 Resp: 89713

Ion Ratio Lower Upper

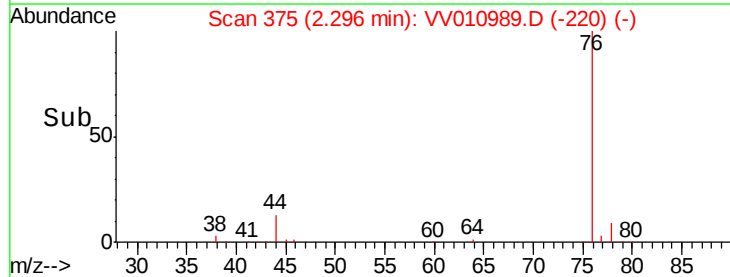
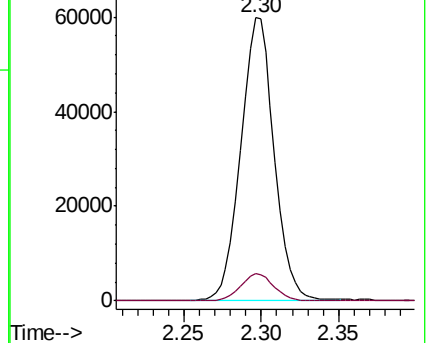
76 100

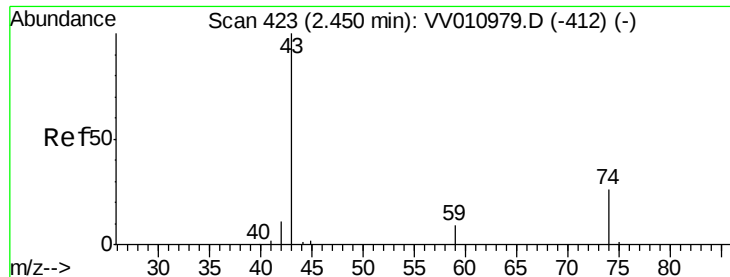
78 9.5 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV010989.D (-220) (-)

Ion 78.00 (77.70 to 78.70): VV010989.D (-220) (-)

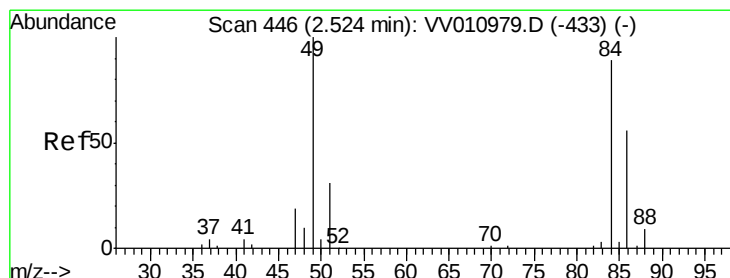
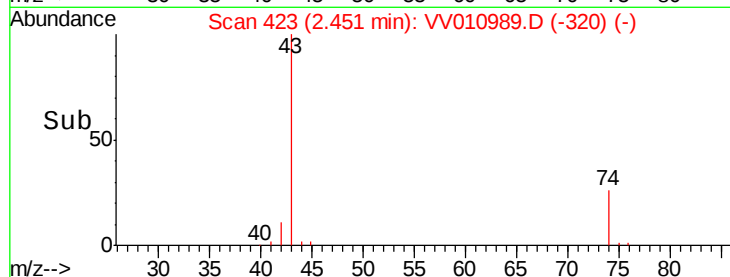
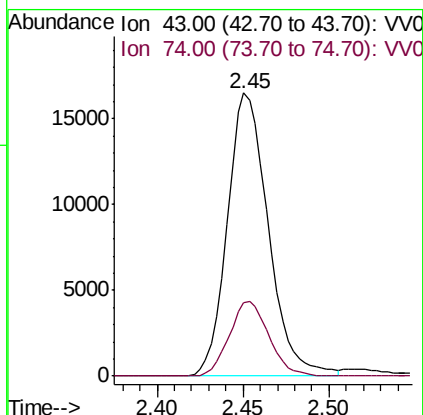
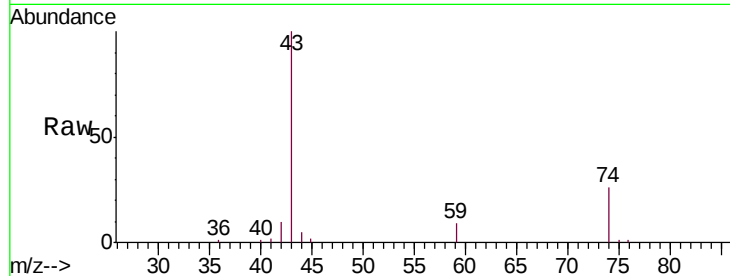




#15
Methyl Acetate
Concen: 25.953 ug/L
RT: 2.45 min Scan# 423
Delta R.T. 0.00 min
Lab File: VV010989.D
Acq: 21 May 2019 07:14

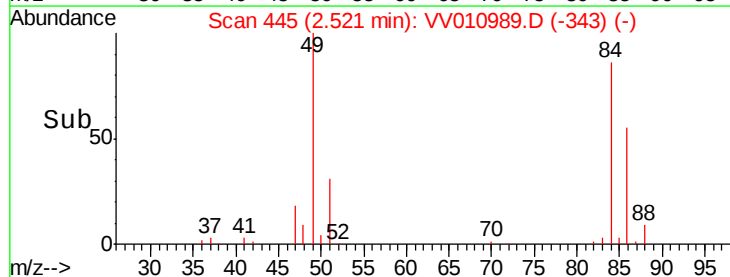
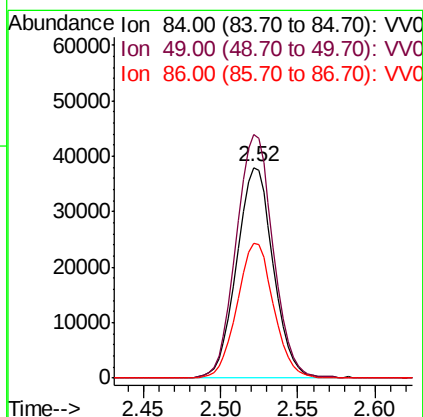
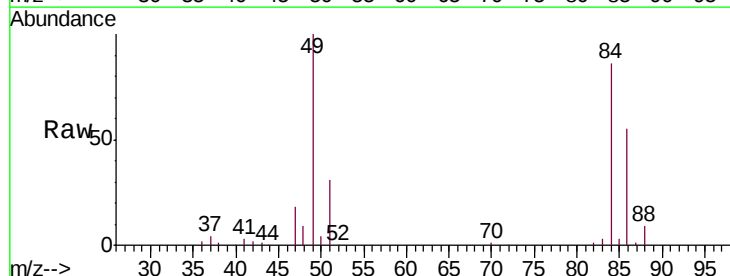
Instrument :
MSVOA_V
ClientSampleId :
VSTD02560

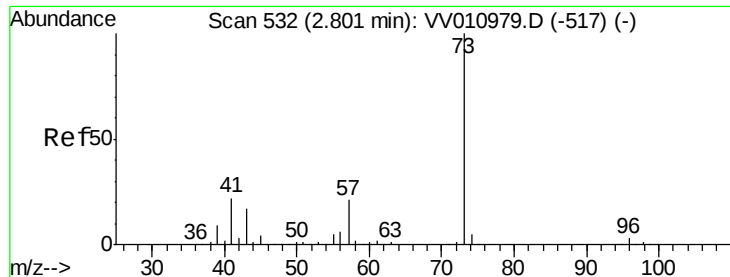
Tgt Ion: 43 Resp: 27387
Ion Ratio Lower Upper
43 100
74 25.4 21.1 31.7



#16
Methylene chloride
Concen: 25.160 ug/L
RT: 2.52 min Scan# 445
Delta R.T. -0.00 min
Lab File: VV010989.D
Acq: 21 May 2019 07:14

Tgt Ion: 84 Resp: 62512
Ion Ratio Lower Upper
84 100
49 115.7 77.4 143.8
86 64.2 44.0 81.6

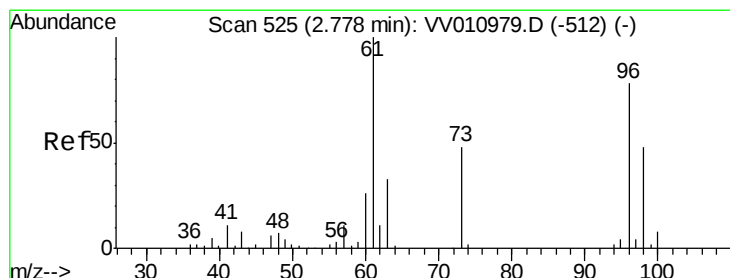
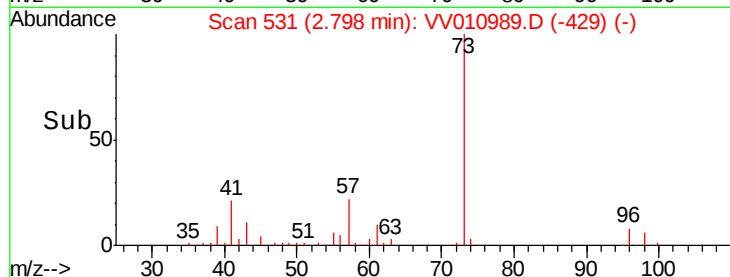
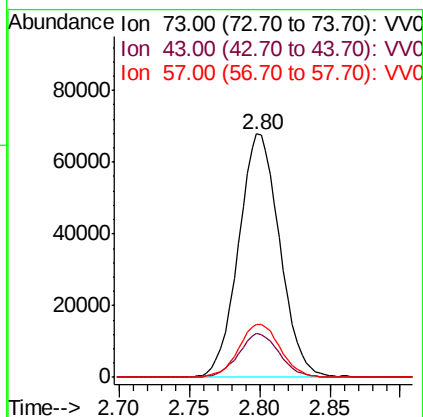
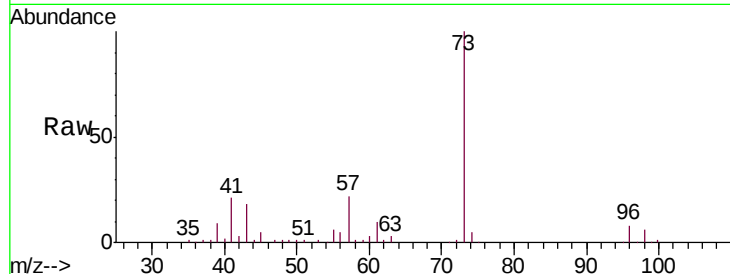




#17
Methyl tert-butyl Ether
Concen: 25.689 ug/L
RT: 2.80 min Scan# 531
Delta R.T. -0.00 min
Lab File: VV010989.D
Acq: 21 May 2019 07:14

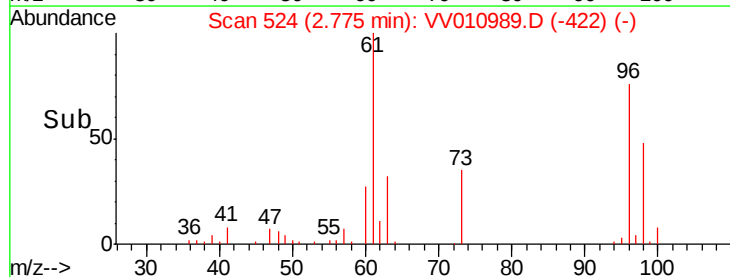
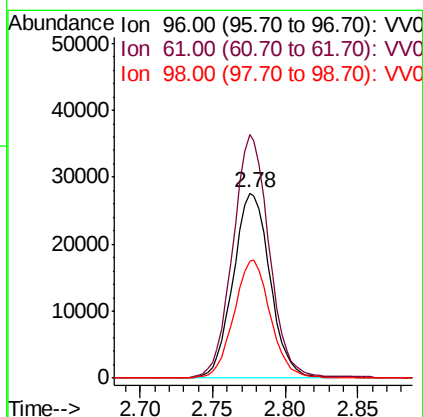
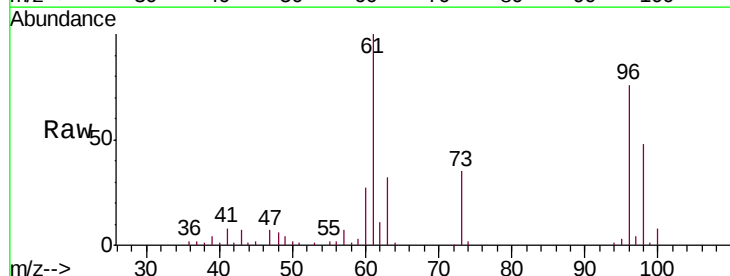
Instrument :
MSVOA_V
ClientSampleId :
VSTD02560

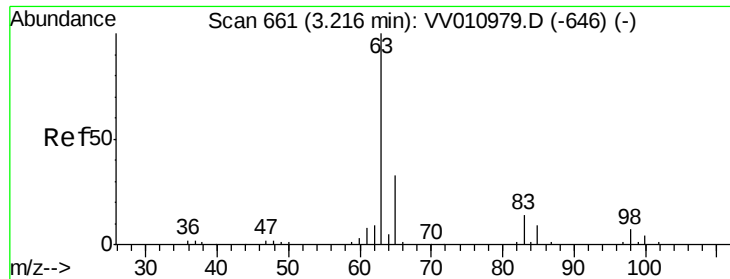
Tgt Ion: 73 Resp: 138873
Ion Ratio Lower Upper
73 100
43 17.9 14.5 21.7
57 22.0 17.3 25.9



#18
trans-1,2-Dichloroethene
Concen: 23.198 ug/L
RT: 2.78 min Scan# 524
Delta R.T. -0.00 min
Lab File: VV010989.D
Acq: 21 May 2019 07:14

Tgt Ion: 96 Resp: 48893
Ion Ratio Lower Upper
96 100
61 131.6 89.7 166.5
98 63.1 44.5 82.7

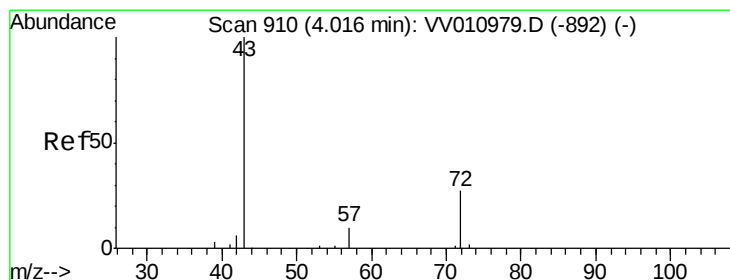
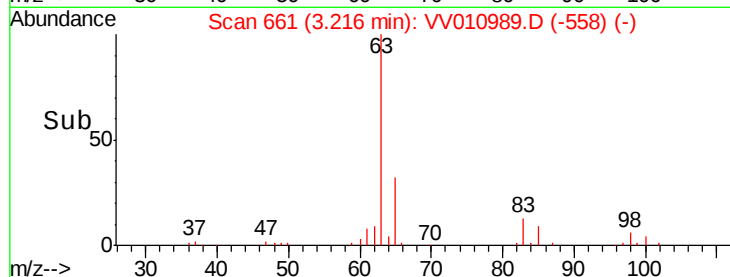
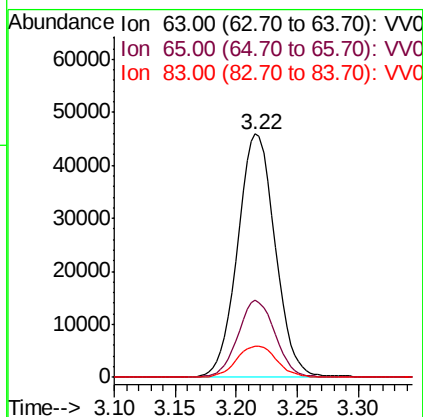
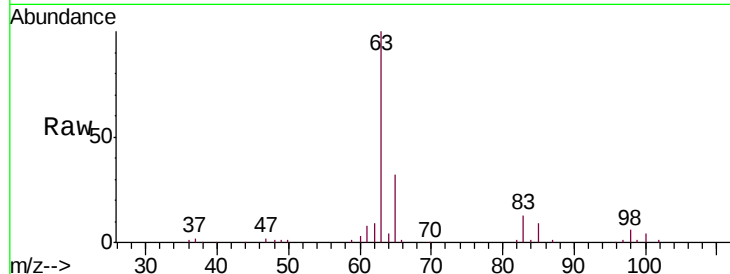




#19
 1,1-Dichloroethane
 Concen: 25.467 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

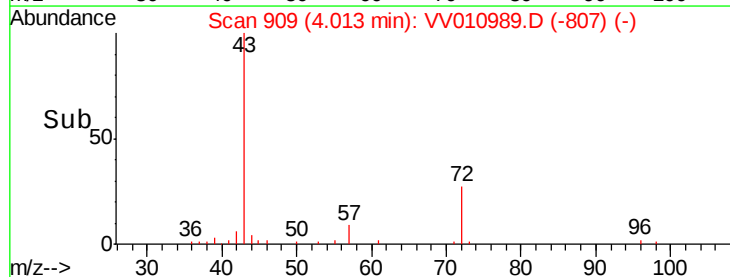
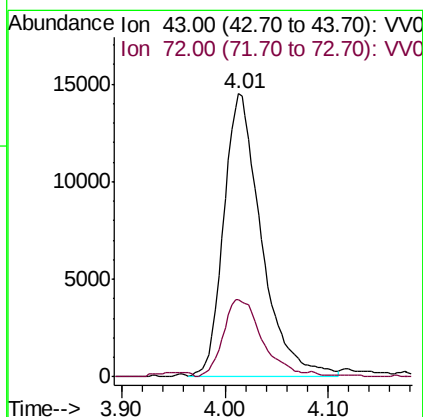
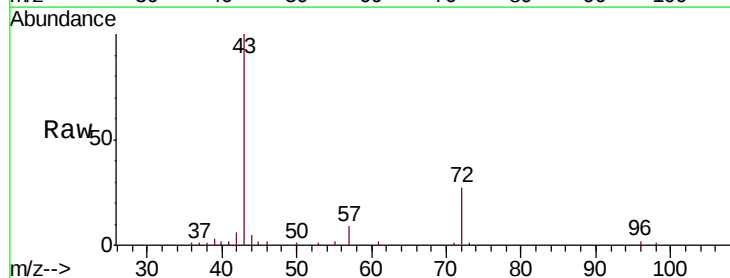
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02560

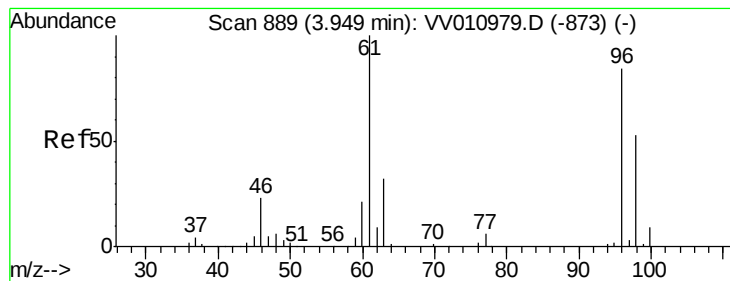
Tgt Ion: 63 Resp: 97733
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.1 39.3
 83 12.6 9.1 16.9



#21
 2-Butanone
 Concen: 49.347 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

Tgt Ion: 43 Resp: 37088
 Ion Ratio Lower Upper
 43 100
 72 28.0 13.1 39.3





#22

cis-1,2-Dichloroethene

Concen: 25.760 ug/L

RT: 3.95 min Scan# 889

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD02560

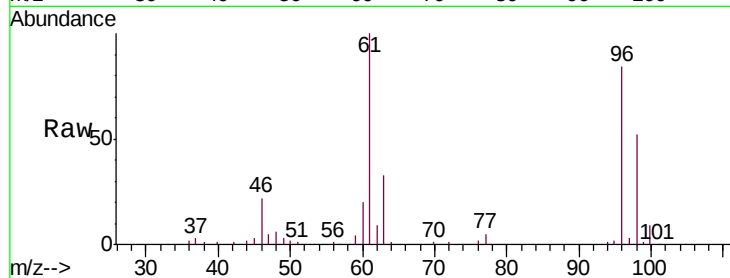
Tgt Ion: 96 Resp: 60451

Ion Ratio Lower Upper

96 100

61 119.2 85.4 158.6

98 62.3 45.1 83.7

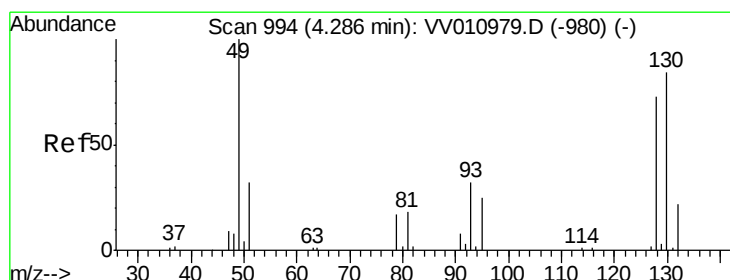
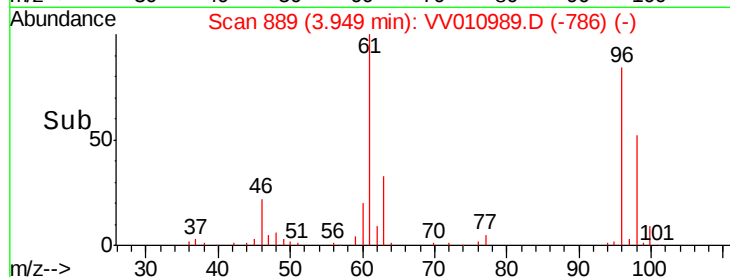
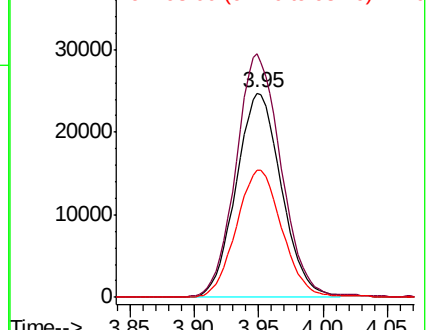


Abundance

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: 26.930 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Tgt Ion: 128 Resp: 29949

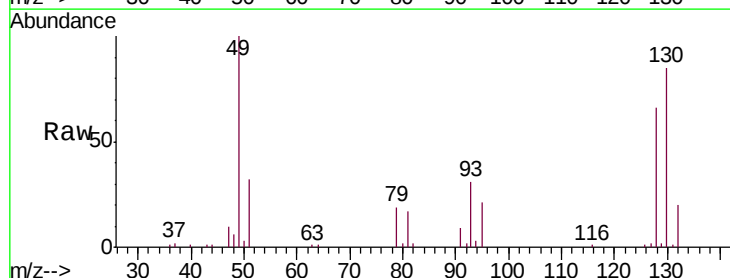
Ion Ratio Lower Upper

128 100

49 151.9 111.6 207.4

130 128.9 95.5 177.3

51 48.7 39.8 59.6



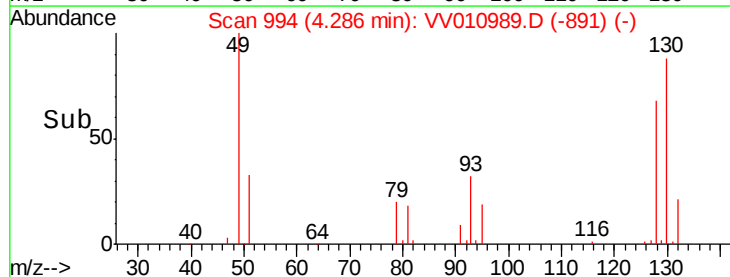
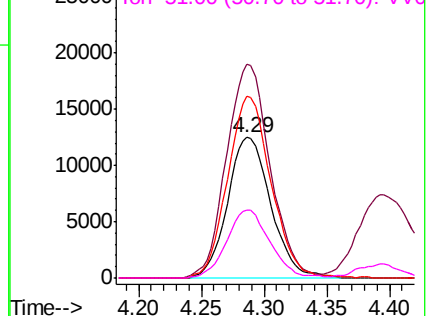
Abundance

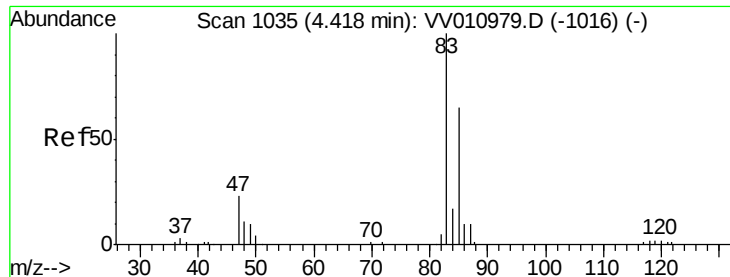
Ion 128.00 (127.70 to 128.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Ion 51.00 (50.70 to 51.70): VV0

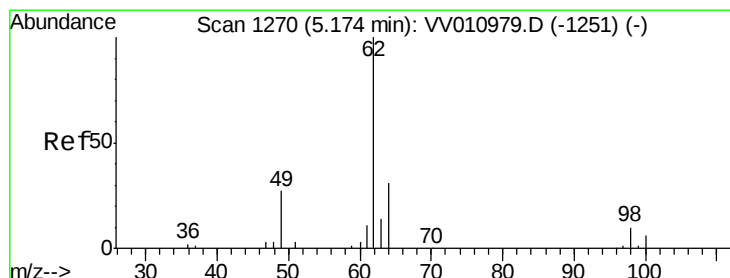
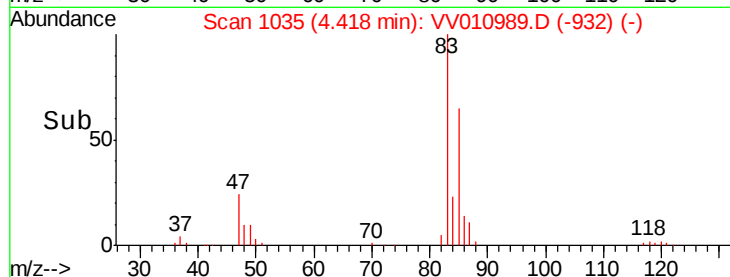
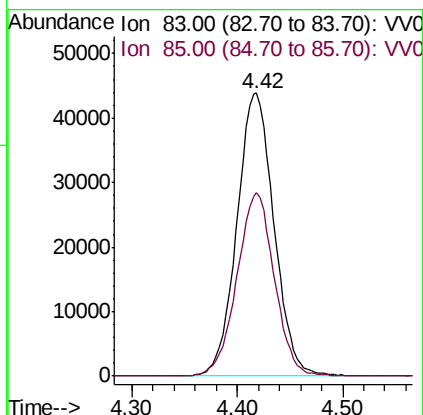
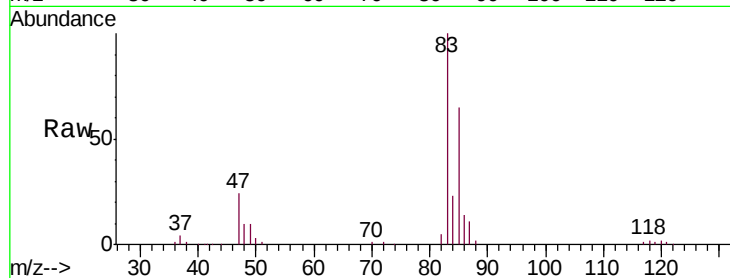




#25
Chloroform
Concen: 24.682 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VV010989.D
Acq: 21 May 2019 07:14

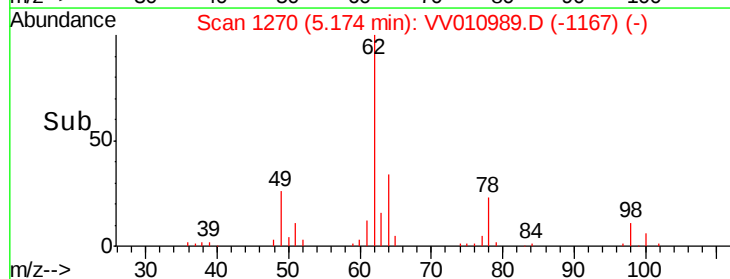
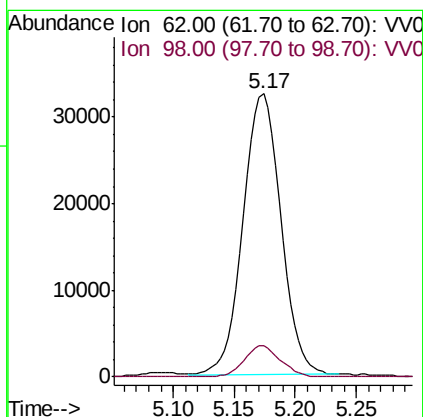
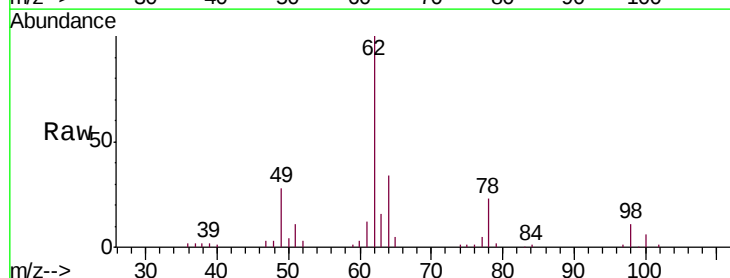
Instrument :
MSVOA_V
ClientSampleId :
VSTD02560

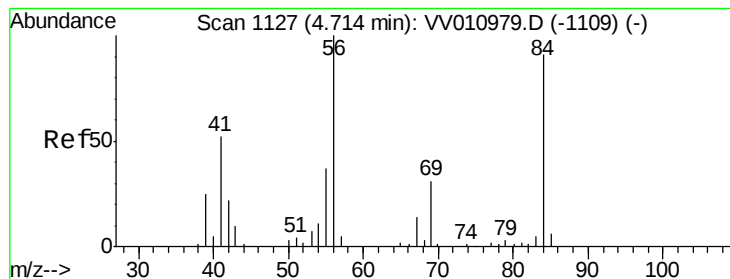
Tgt Ion: 83 Resp: 107181
Ion Ratio Lower Upper
83 100
85 65.4 45.6 84.8



#27
1,2-Dichloroethane
Concen: 26.140 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VV010989.D
Acq: 21 May 2019 07:14

Tgt Ion: 62 Resp: 69779
Ion Ratio Lower Upper
62 100
98 11.0 8.6 13.0





#30

Cyclohexane

Concen: 19.789 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD02560

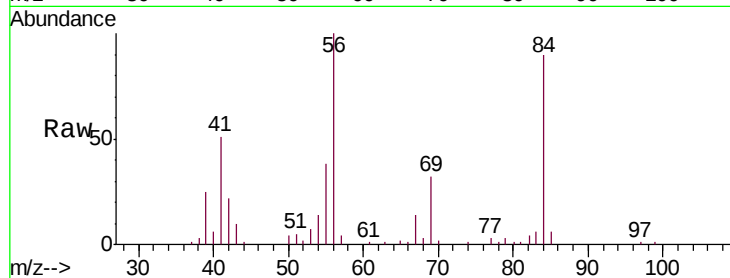
Tgt Ion: 56 Resp: 60047

Ion Ratio Lower Upper

56 100

69 32.3 25.1 37.7

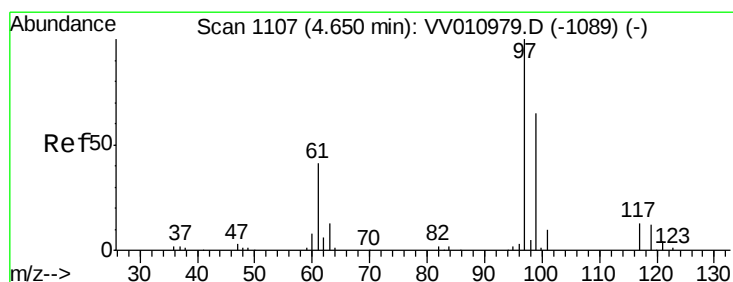
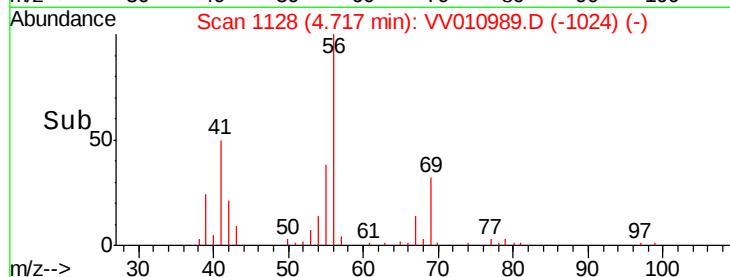
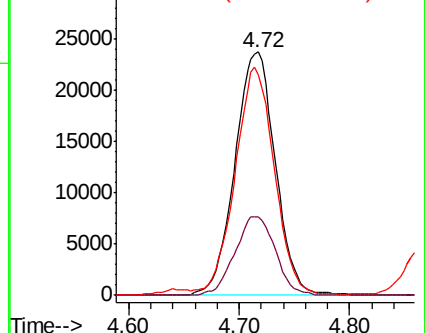
84 90.0 72.4 108.6



Abundance Ion 56.00 (55.70 to 56.70): VV010979.D (-1109) (-)

Ion 69.00 (68.70 to 69.70): VV010979.D (-1109) (-)

Ion 84.00 (83.70 to 84.70): VV010979.D (-1109) (-)



#31

1,1,1-Trichloroethane

Concen: 23.703 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

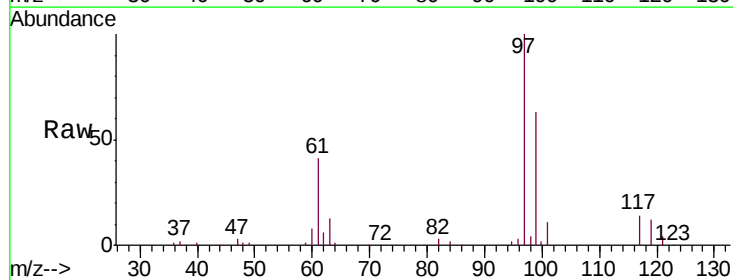
Tgt Ion: 97 Resp: 77860

Ion Ratio Lower Upper

97 100

99 63.9 51.0 76.4

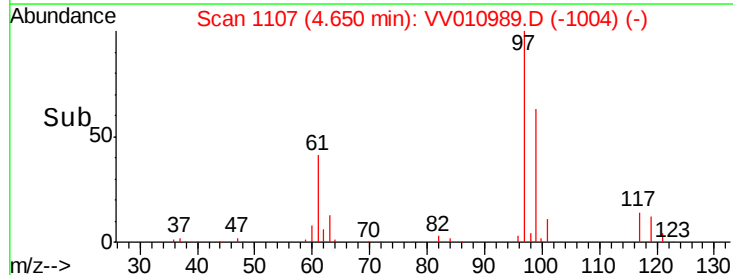
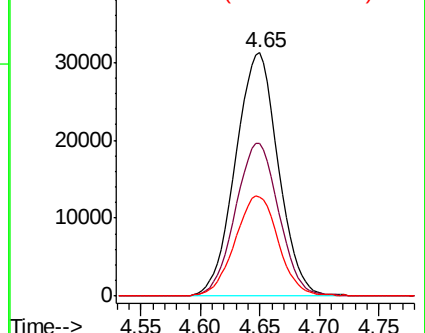
61 41.8 33.9 50.9

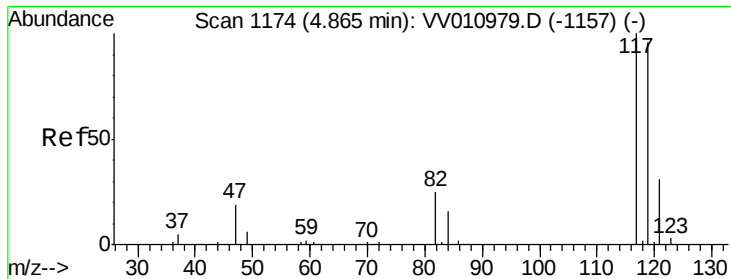


Abundance Ion 97.00 (96.70 to 97.70): VV010979.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VV010979.D (-1089) (-)

Ion 61.00 (60.70 to 61.70): VV010979.D (-1089) (-)





#32

Carbon tetrachloride

Concen: 21.955 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

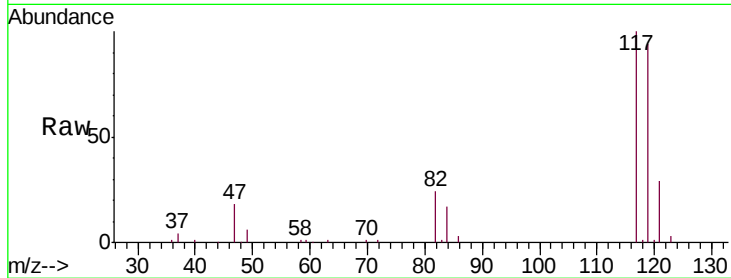
VSTD02560

Tgt Ion:117 Resp: 65767

Ion Ratio Lower Upper

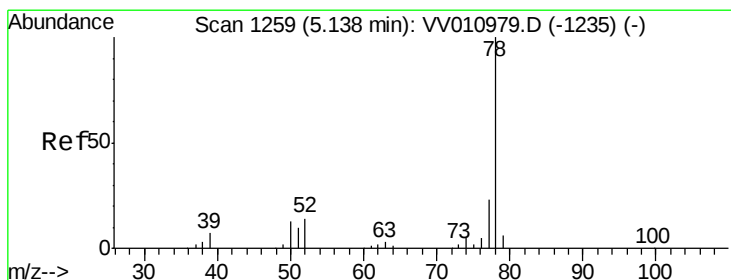
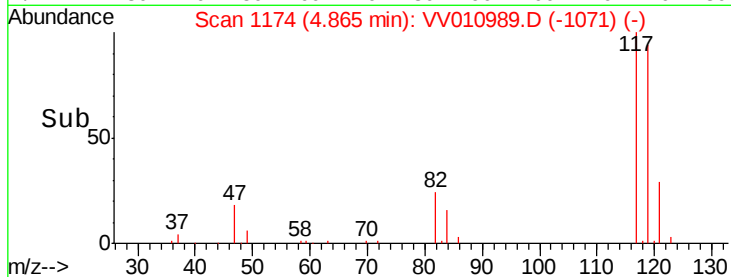
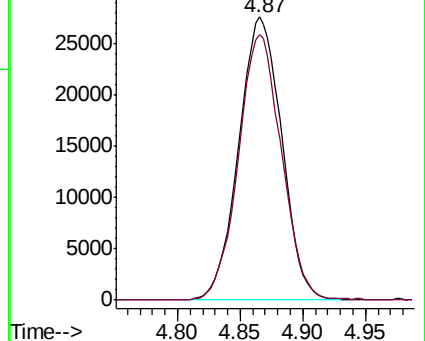
117 100

119 93.7 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 27.127 ug/L

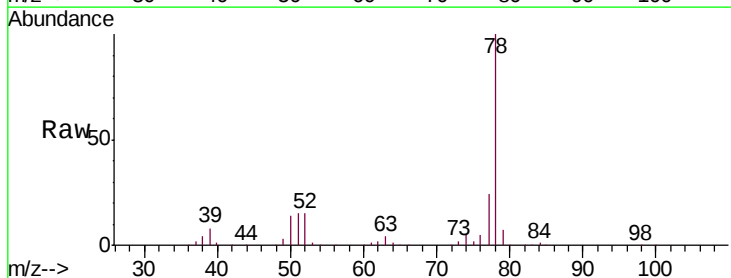
RT: 5.14 min Scan# 1259

Delta R.T. 0.00 min

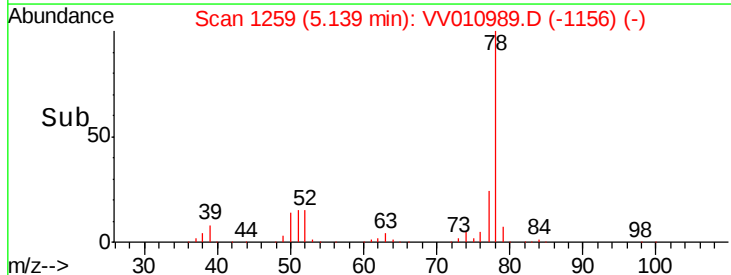
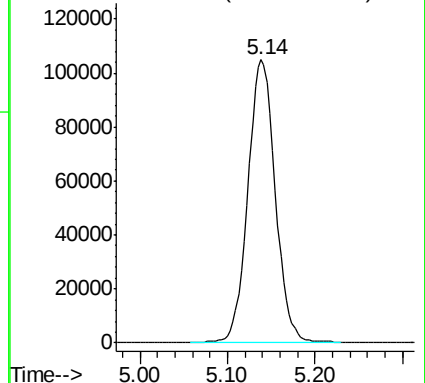
Lab File: VV010989.D

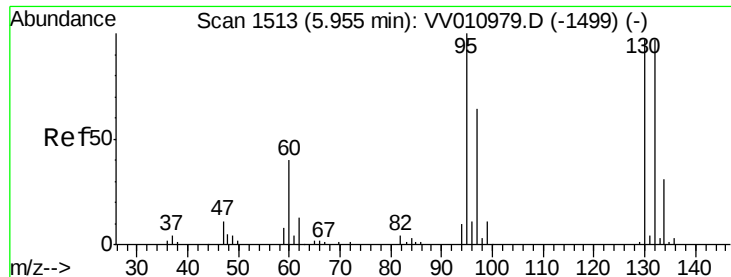
Acq: 21 May 2019 07:14

Tgt Ion: 78 Resp: 228355



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 24.971 ug/L

RT: 5.95 min Scan# 1512

Delta R.T. -0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD02560

Tgt Ion: 95 Resp: 58079

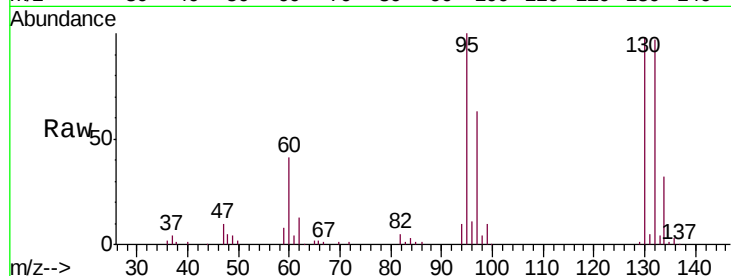
Ion Ratio Lower Upper

95 100

97 64.7 43.4 80.6

132 98.0 68.8 127.8

130 99.1 69.9 129.9



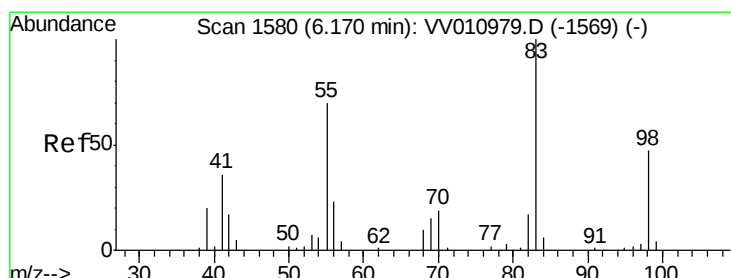
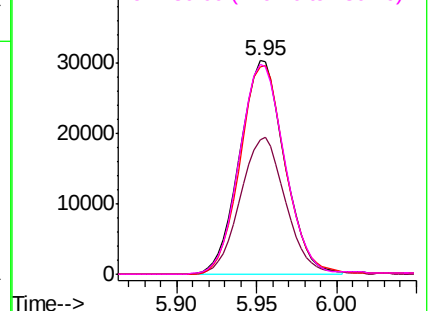
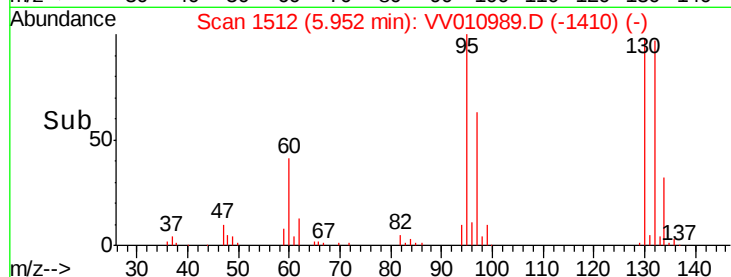
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 21.704 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

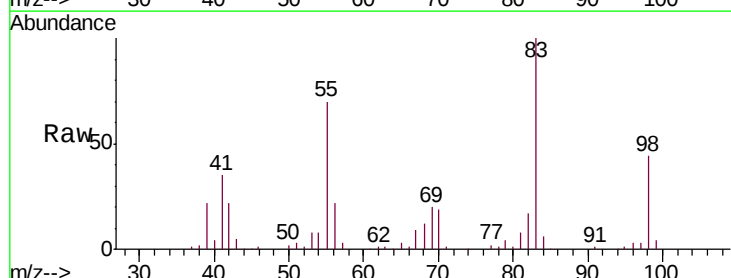
Tgt Ion: 83 Resp: 74630

Ion Ratio Lower Upper

83 100

55 69.5 57.0 85.4

98 45.3 36.2 54.4

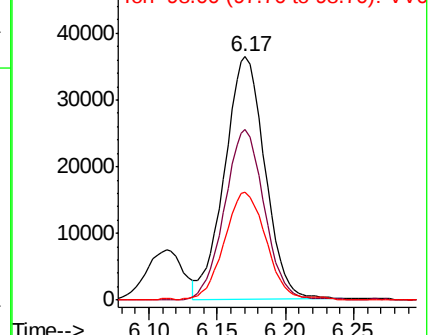
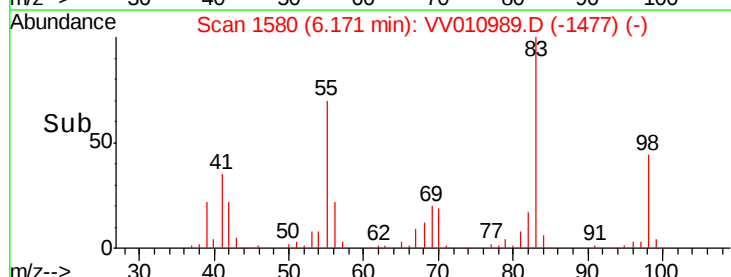


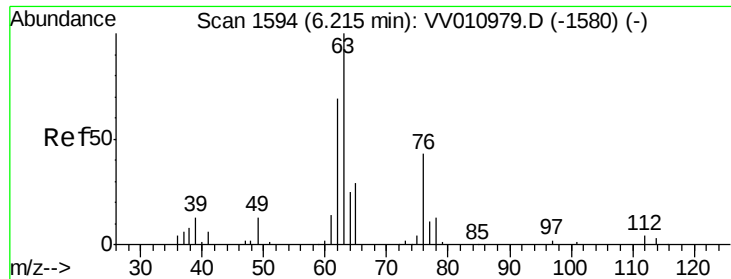
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

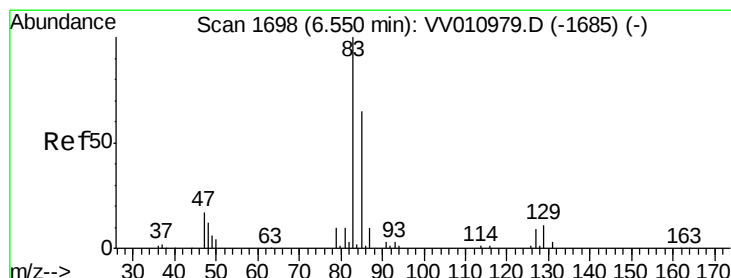
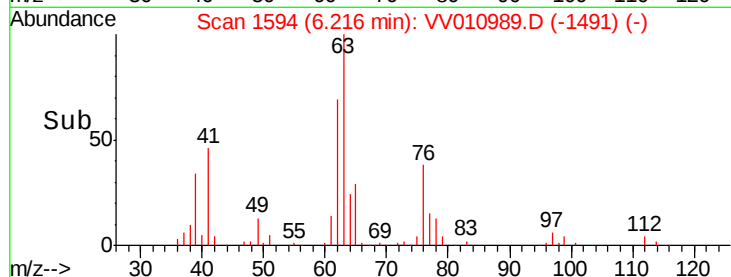
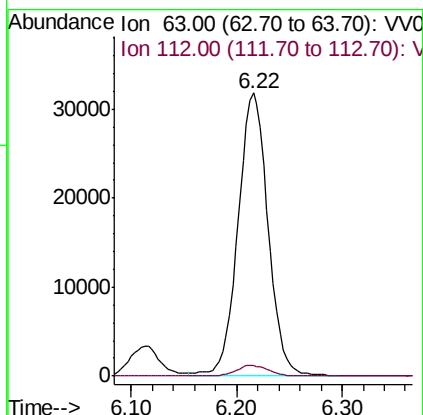
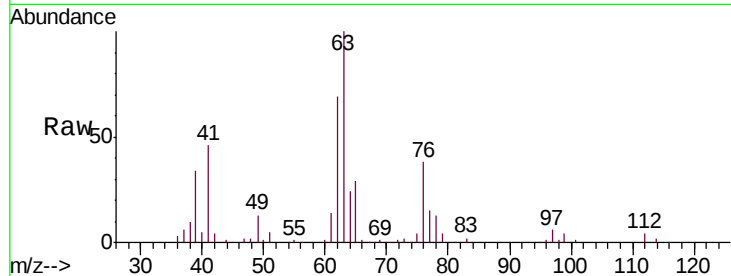




#40
 1,2-Dichloropropane
 Concen: 28.512 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

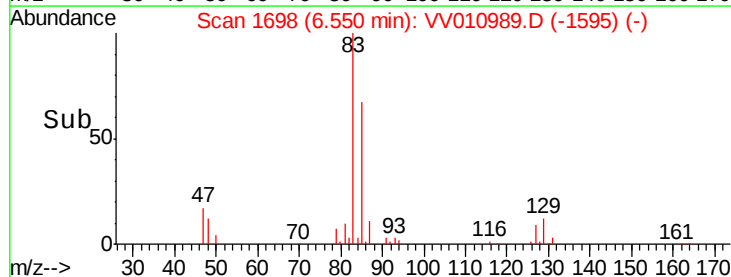
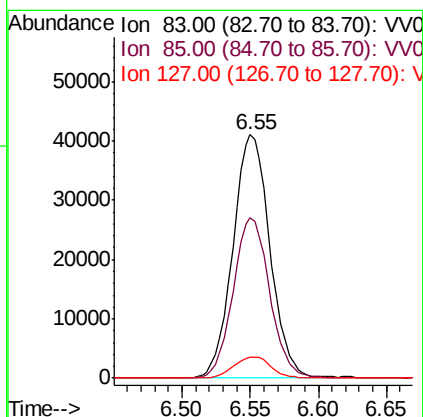
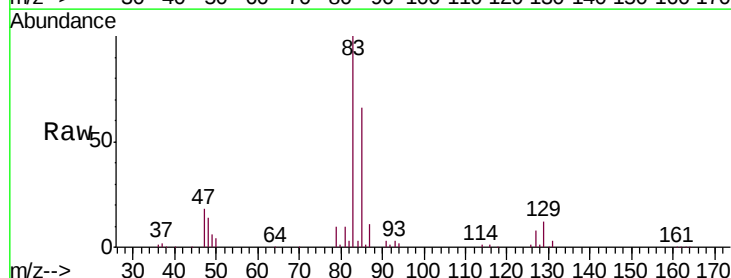
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02560

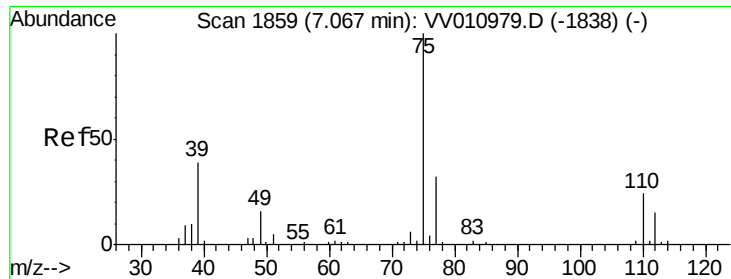
Tgt Ion: 63 Resp: 63077
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.6 5.4



#41
 Bromodichloromethane
 Concen: 26.113 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

Tgt Ion: 83 Resp: 77215
 Ion Ratio Lower Upper
 83 100
 85 66.0 46.7 86.7
 127 8.4 7.1 10.7

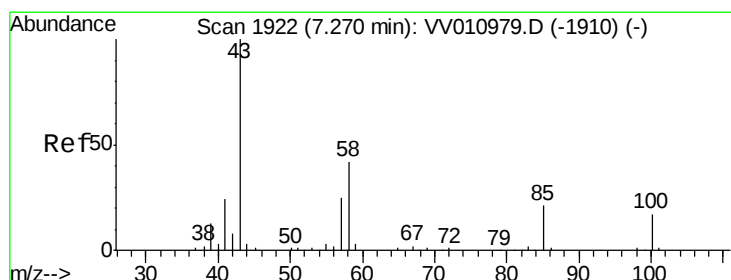
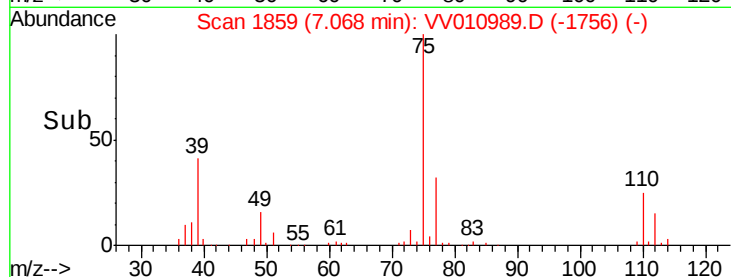
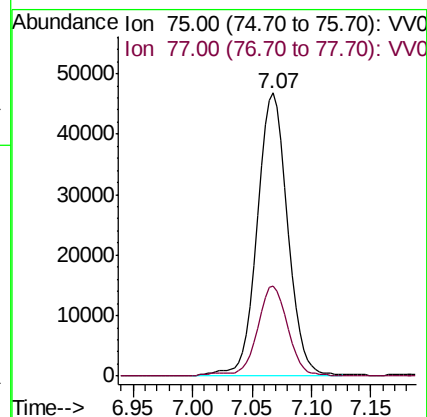
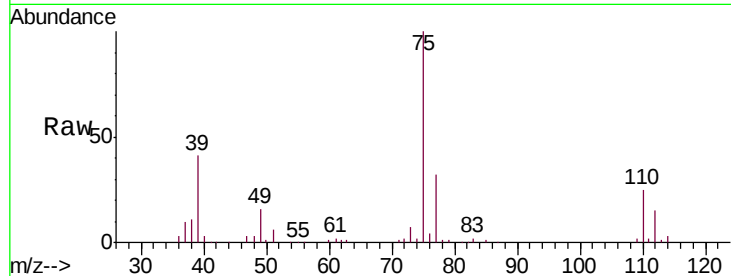




#42
 cis-1,3-Dichloropropene
 Concen: 25.318 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

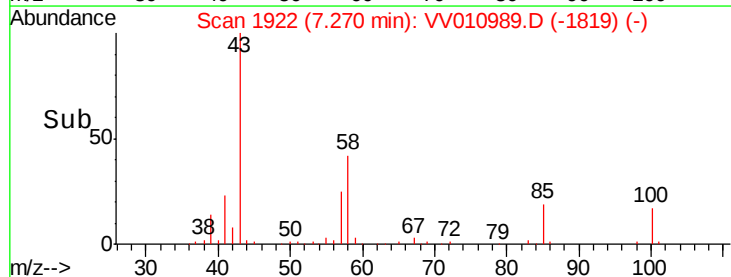
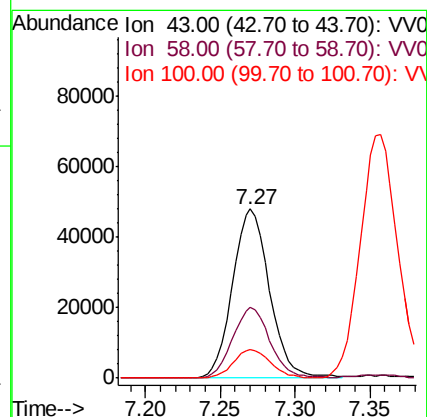
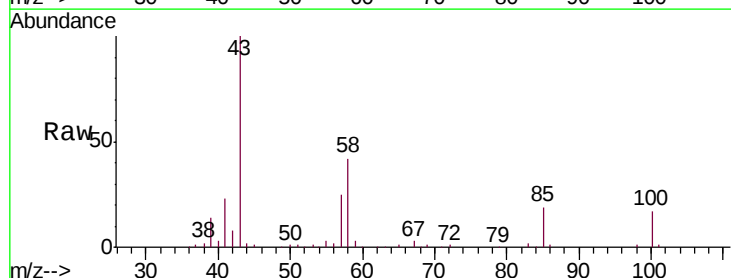
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02560

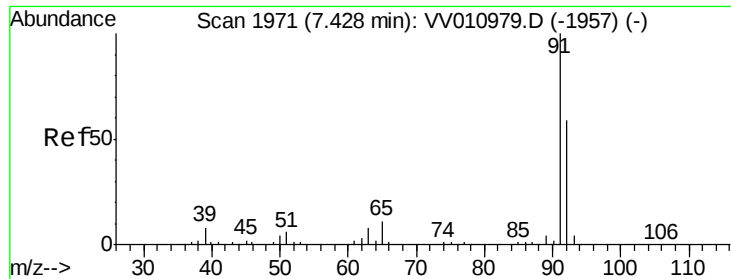
Tgt Ion: 75 Resp: 83372
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.9 42.5



#43
 4-Methyl-2-pentanone
 Concen: 52.096 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

Tgt Ion: 43 Resp: 82618
 Ion Ratio Lower Upper
 43 100
 58 42.2 33.1 49.7
 100 17.2 13.1 19.7





#44

Toluene

Concen: 27.070 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

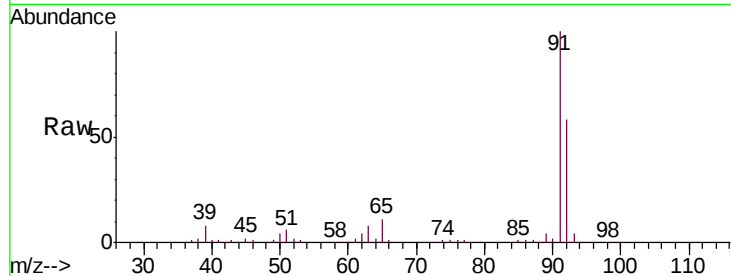
VSTD02560

Tgt Ion: 91 Resp: 252882

Ion Ratio Lower Upper

91 100

92 57.8 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VV010989.D (-1957) (-)

Ion 92.00 (91.70 to 92.70): VV010989.D (-1868) (-)

7.43

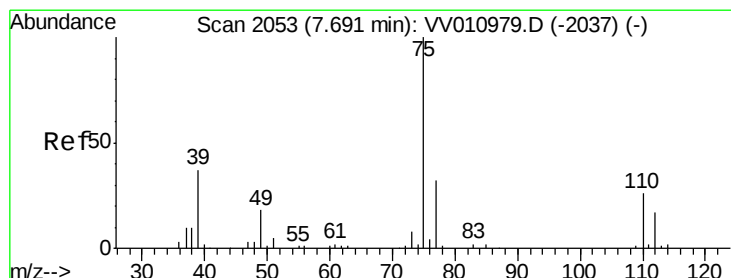
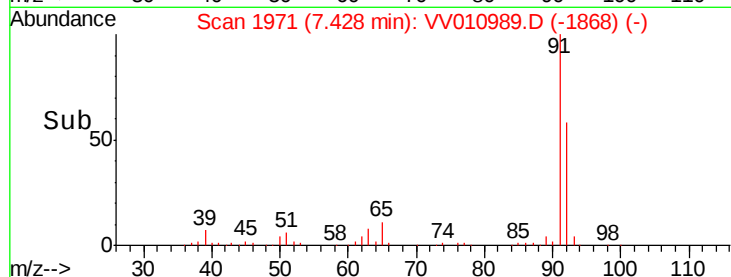
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.890 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010989.D

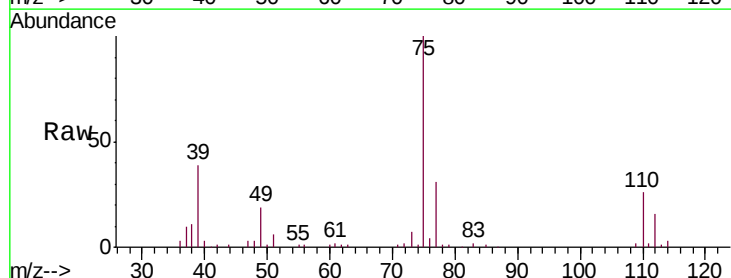
Acq: 21 May 2019 07:14

Tgt Ion: 75 Resp: 69041

Ion Ratio Lower Upper

75 100

77 31.3 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VV010989.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV010989.D (-1950) (-)

7.69

40000

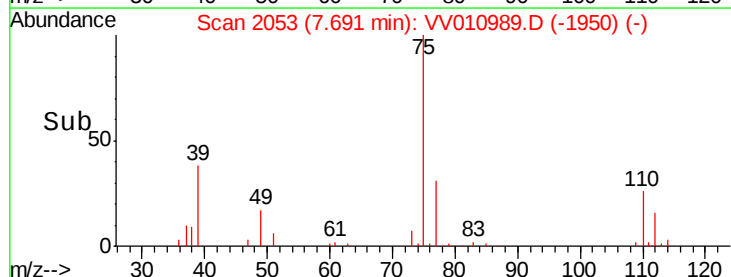
30000

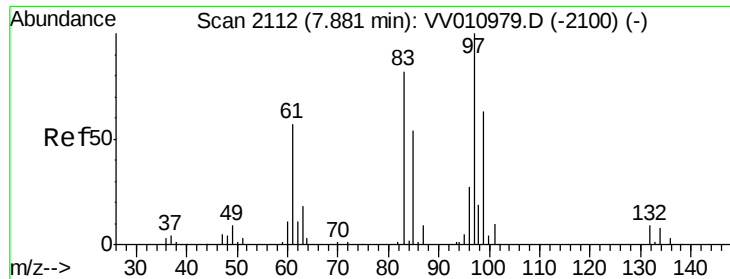
20000

10000

0

Time-->

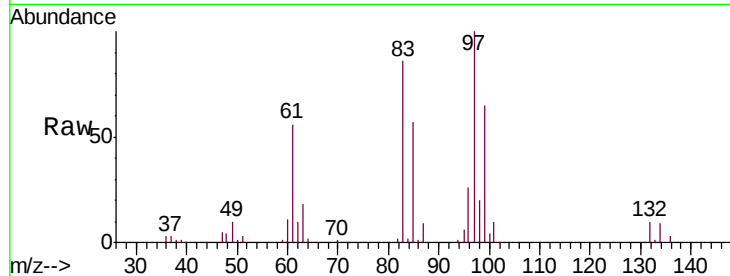




#46
 1,1,2-Trichloroethane
 Concen: 28.082 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02560

Tgt Ion:	97	Resp:	52939
Ion	Ratio	Lower	Upper
97	100		
83	85.9	61.6	114.4
85	57.2	40.2	74.6
99	65.2	45.1	83.7



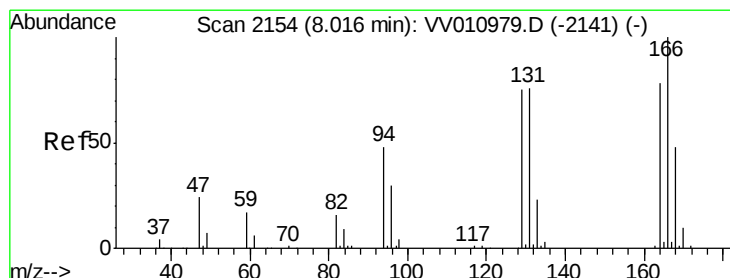
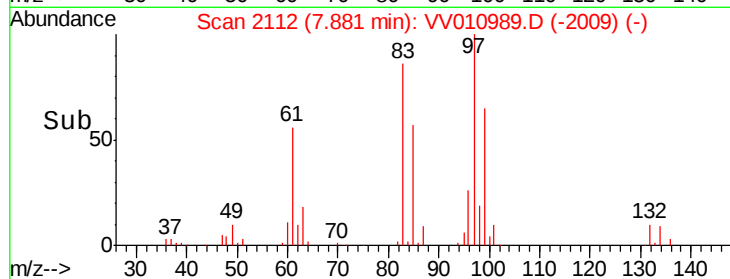
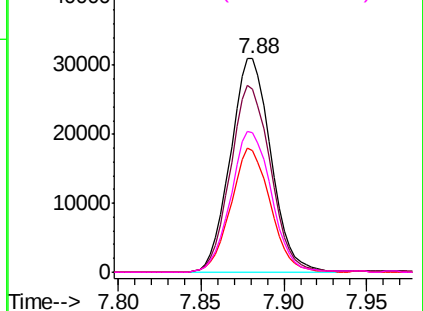
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

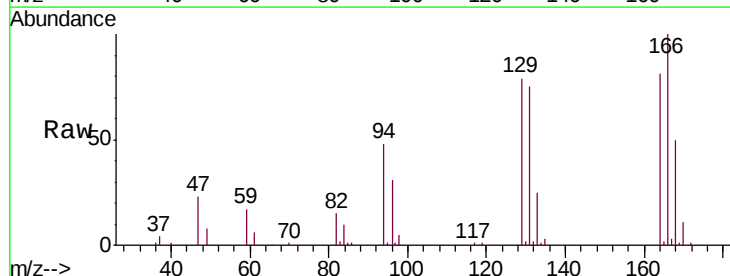
Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47
 Tetrachloroethene
 Concen: 23.251 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

Tgt Ion:	164	Resp:	42213
Ion	Ratio	Lower	Upper
164	100		
129	97.1	67.8	125.8
131	92.6	64.1	119.1
166	123.6	86.1	159.9



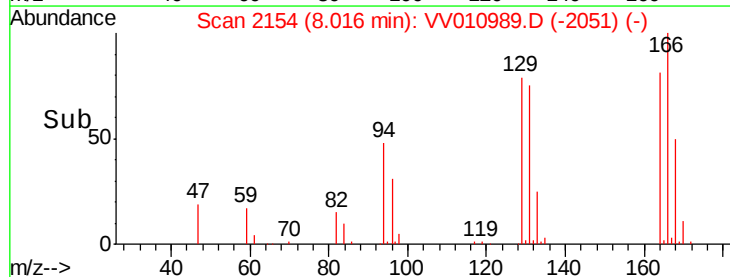
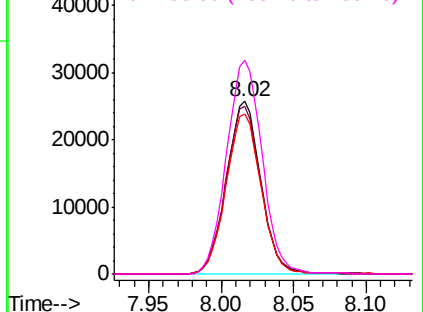
Abundance

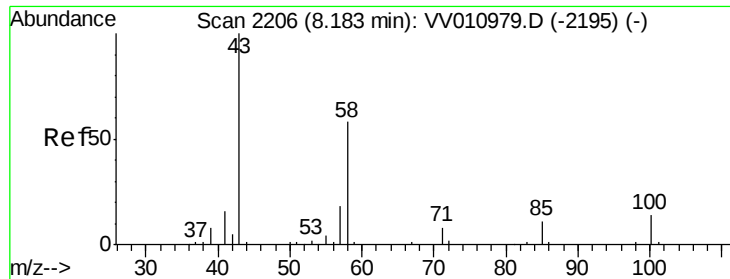
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

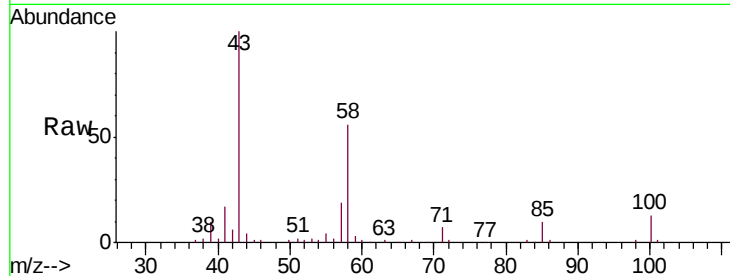




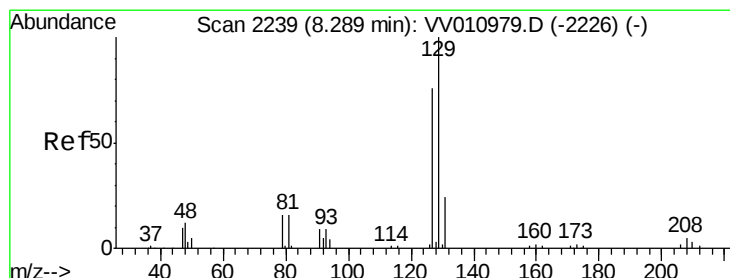
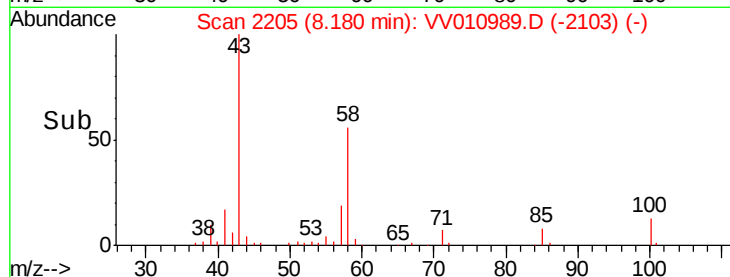
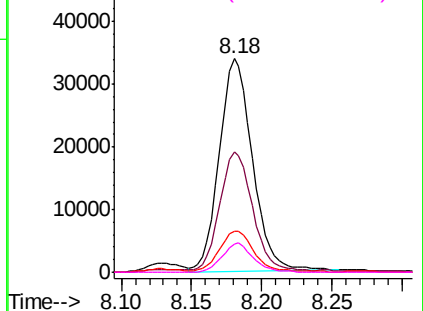
#49
2-Hexanone
Concen: 48.068 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV010989.D
Acq: 21 May 2019 07:14

Instrument :
MSVOA_V
ClientSampleId :
VSTD02560

Tgt Ion: 43 Resp: 55658
Ion Ratio Lower Upper
43 100
58 55.8 46.0 69.0
57 19.7 14.5 21.7
100 12.8 10.3 15.5

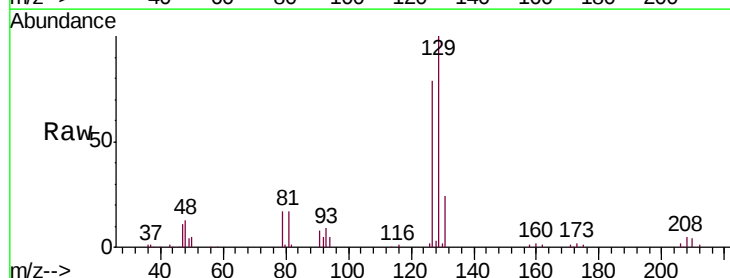


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

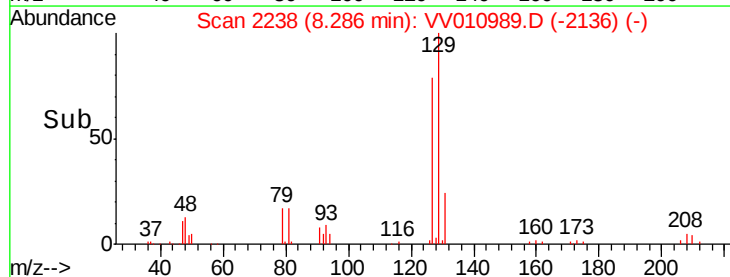
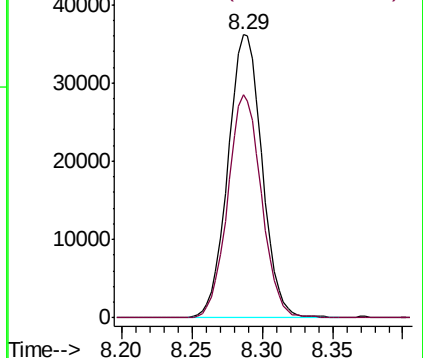


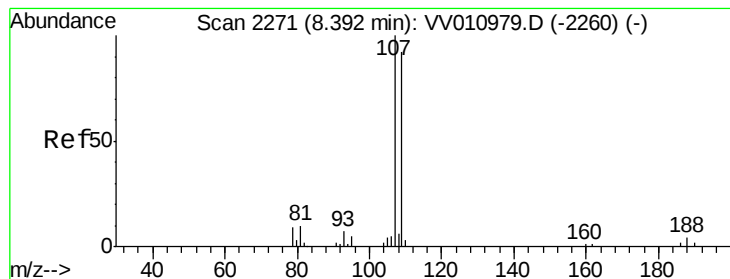
#50
Dibromochloromethane
Concen: 27.572 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV010989.D
Acq: 21 May 2019 07:14

Tgt Ion: 129 Resp: 61179
Ion Ratio Lower Upper
129 100
127 78.8 54.4 101.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 27.483 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD02560

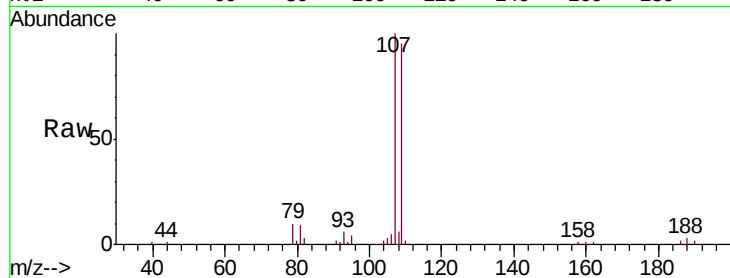
Tgt Ion:107 Resp: 50103

Ion Ratio Lower Upper

107 100

109 94.5 68.0 126.4

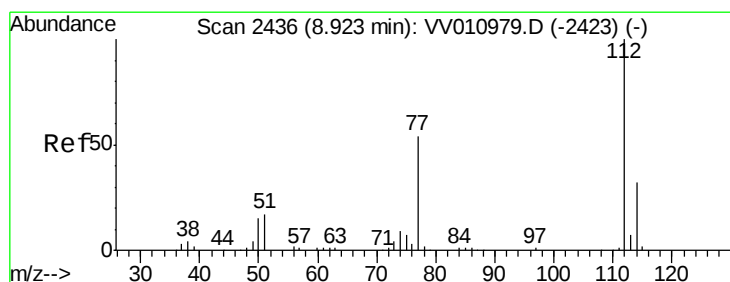
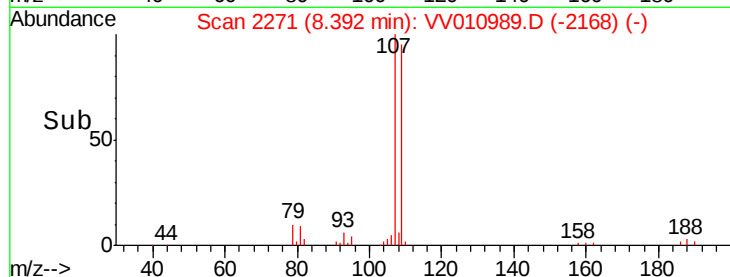
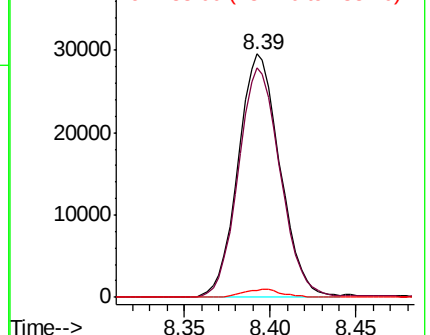
188 3.0 2.3 3.5



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: 27.064 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

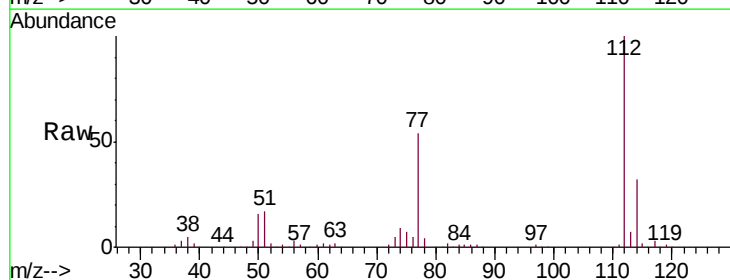
Tgt Ion:112 Resp: 173294

Ion Ratio Lower Upper

112 100

77 54.2 43.0 64.4

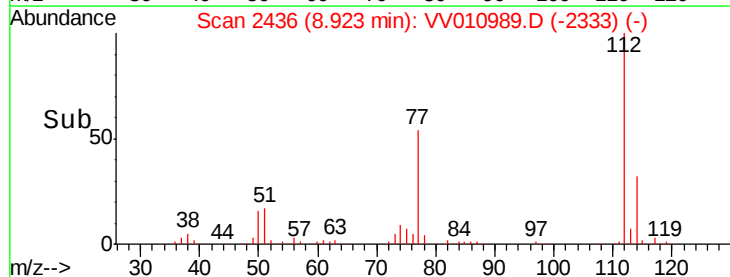
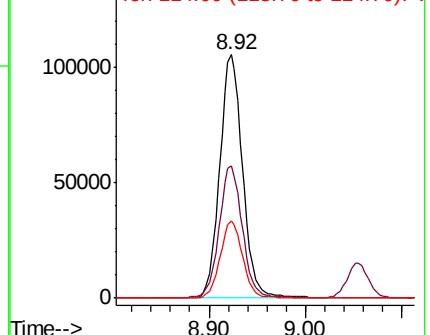
114 31.6 22.0 40.8

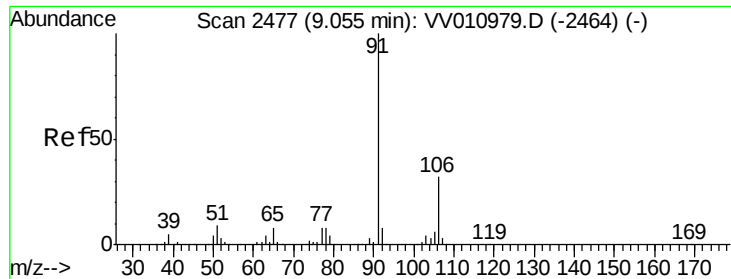


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 26.341 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

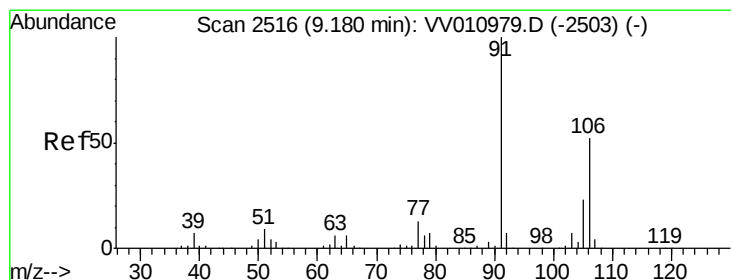
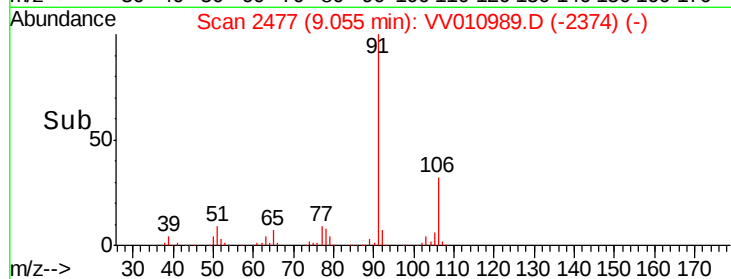
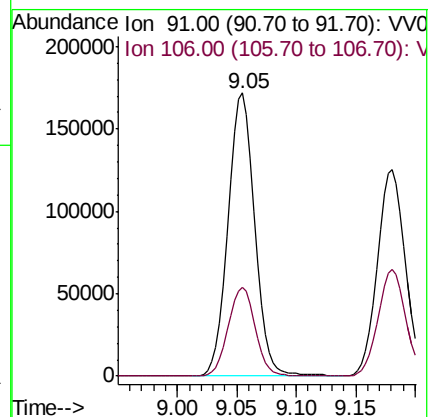
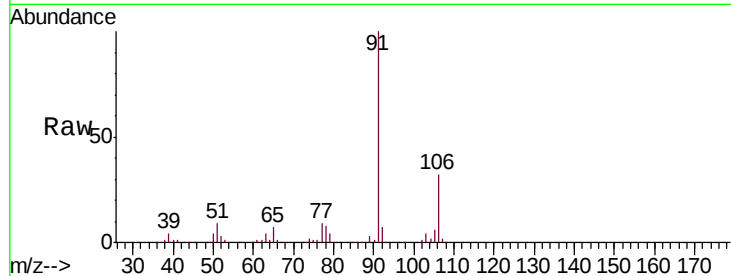
VSTD02560

Tgt Ion: 91 Resp: 268124

Ion Ratio Lower Upper

91 100

106 31.5 22.4 41.6



#54

m,p-Xylene

Concen: 26.173 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV010989.D

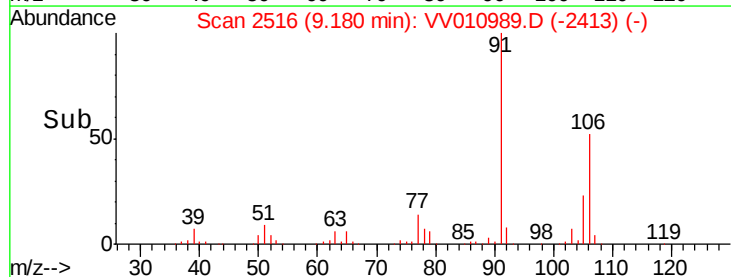
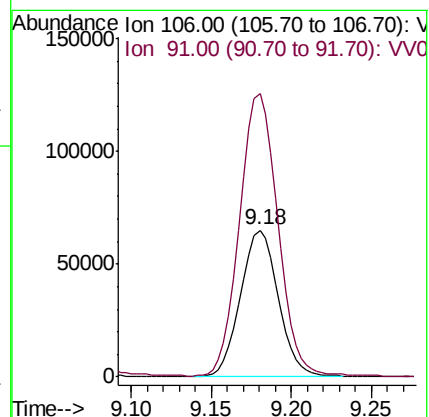
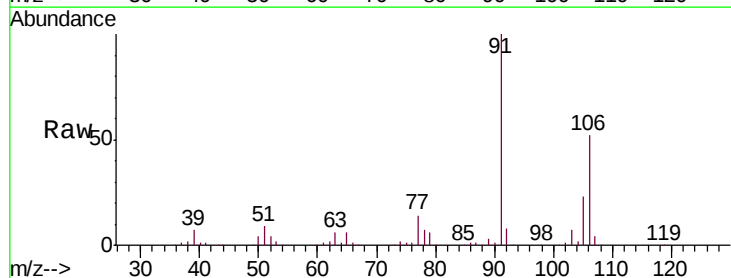
Acq: 21 May 2019 07:14

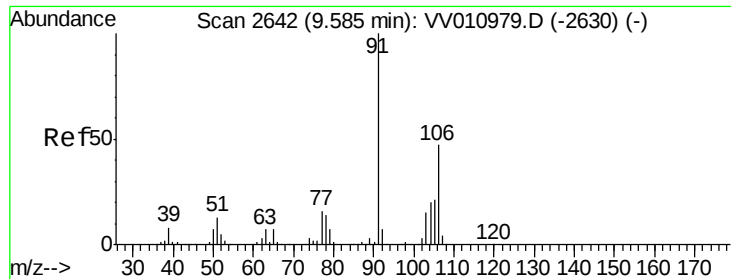
Tgt Ion: 106 Resp: 103837

Ion Ratio Lower Upper

106 100

91 193.1 138.3 256.9





#55

o-xylene

Concen: 27.585 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

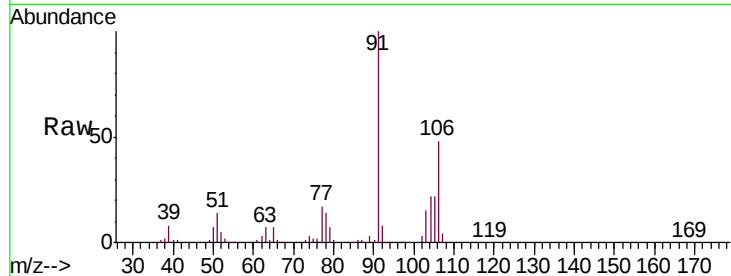
VSTD02560

Tgt Ion:106 Resp: 104411

Ion Ratio Lower Upper

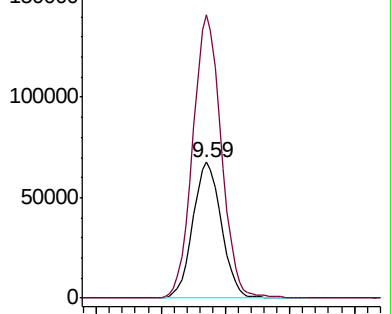
106 100

91 208.6 145.9 270.9

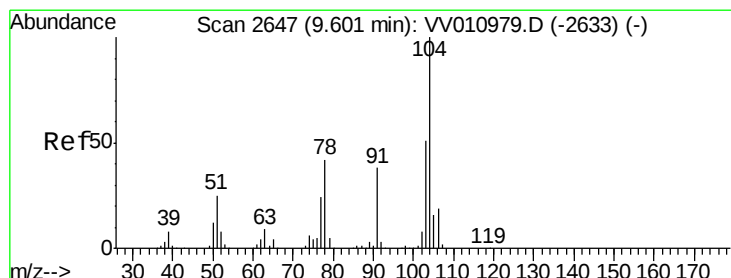
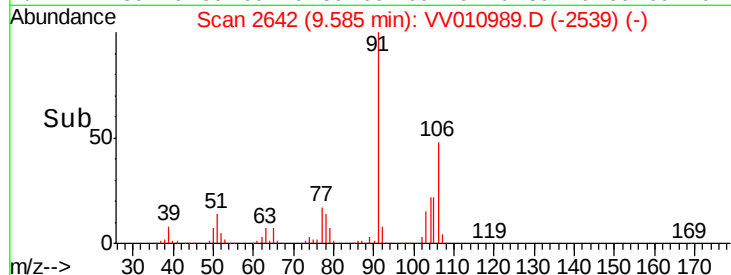


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



Time--> 9.50 9.55 9.60 9.65 9.70



#56

Styrene

Concen: 28.480 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV010989.D

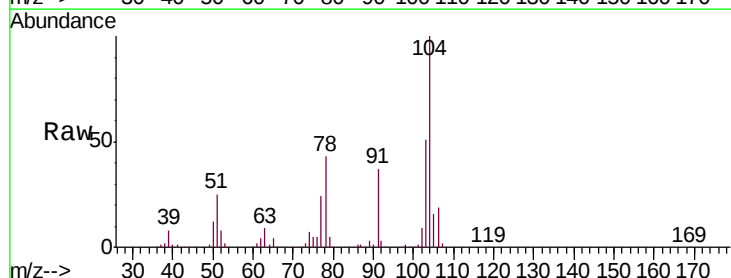
Acq: 21 May 2019 07:14

Tgt Ion:104 Resp: 185784

Ion Ratio Lower Upper

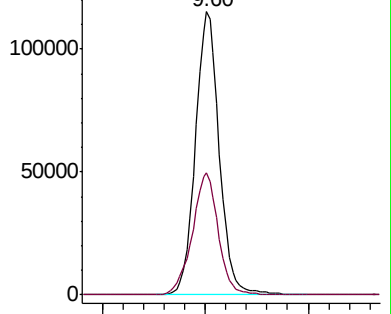
104 100

78 43.0 29.2 54.2

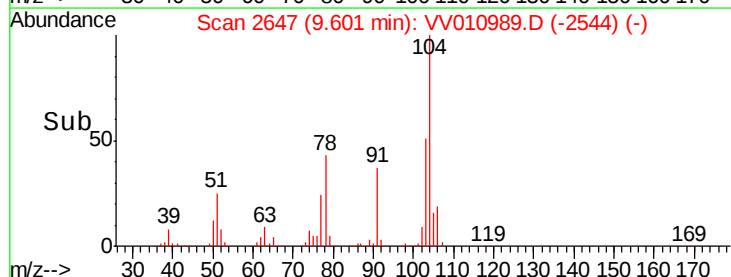


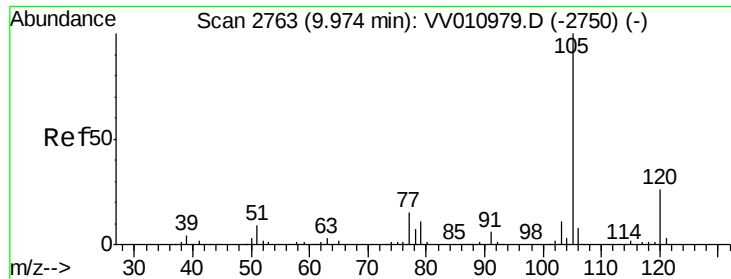
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



Time--> 9.50 9.60 9.70





#57

Isopropylbenzene

Concen: 25.068 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD02560

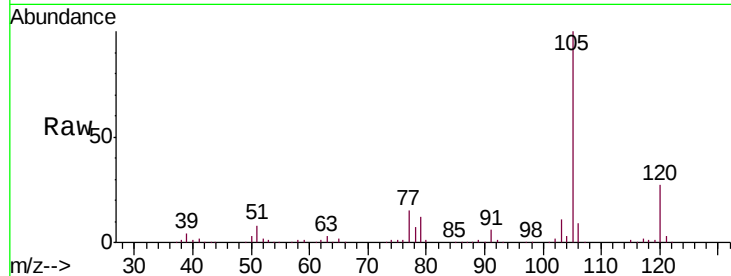
Tgt Ion: 105 Resp: 250309

Ion Ratio Lower Upper

105 100

120 27.1 21.9 32.9

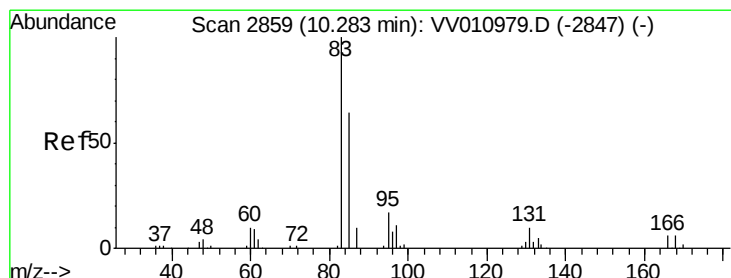
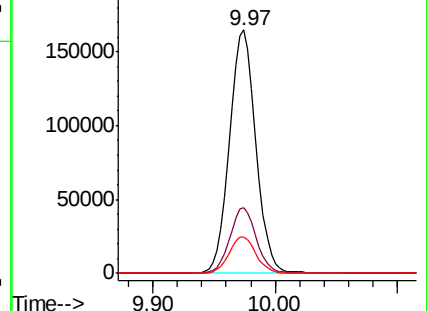
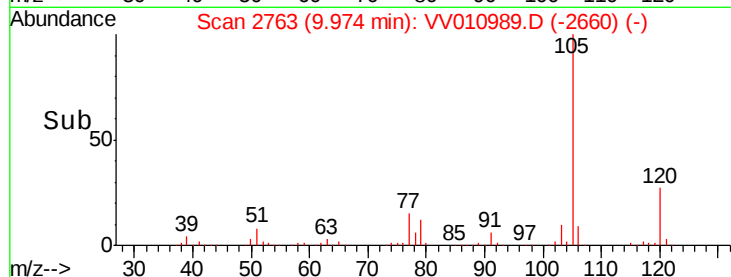
77 15.5 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 26.712 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

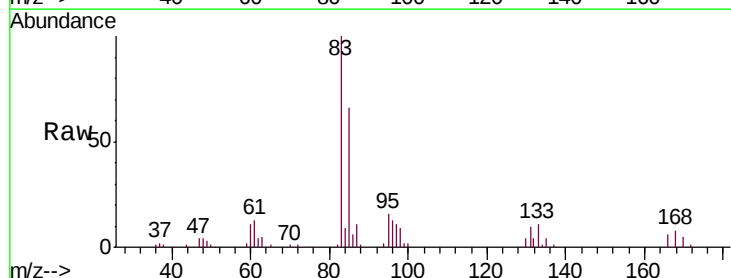
Tgt Ion: 83 Resp: 66305

Ion Ratio Lower Upper

83 100

85 65.9 44.4 82.5

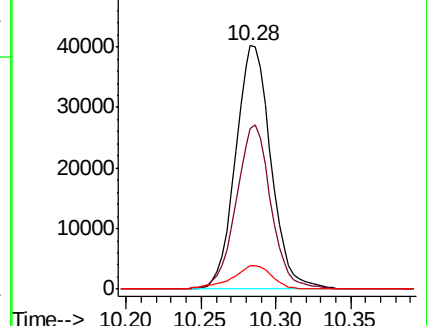
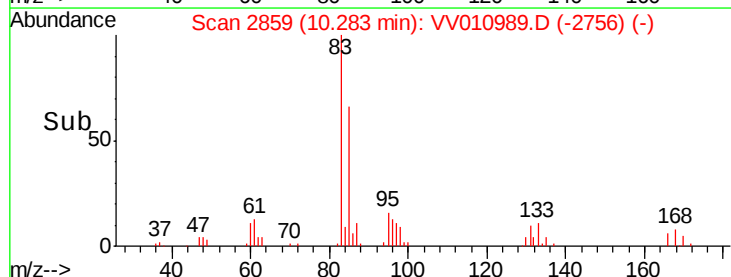
131 9.7 8.2 12.4

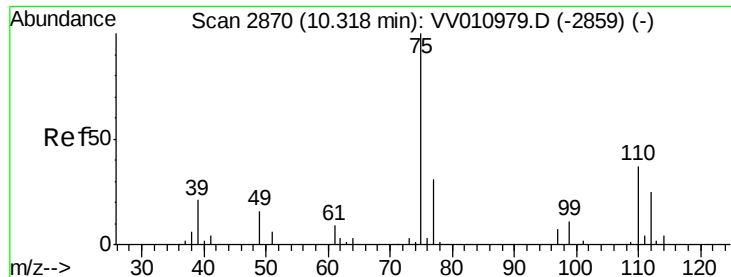


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

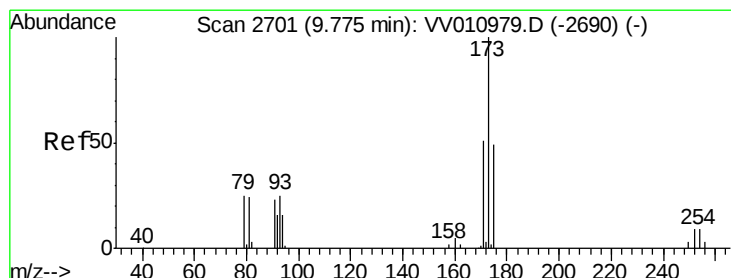
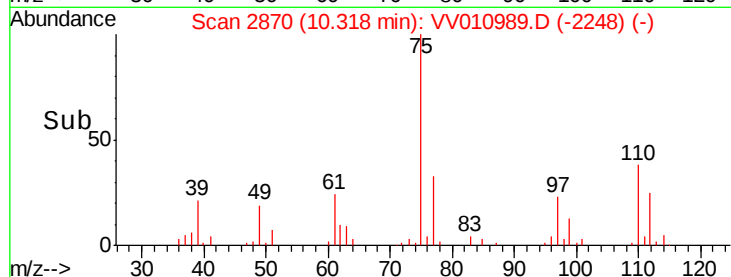
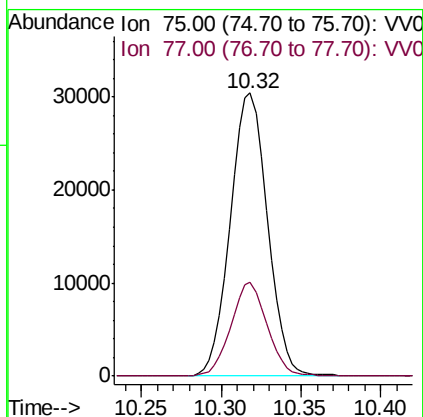
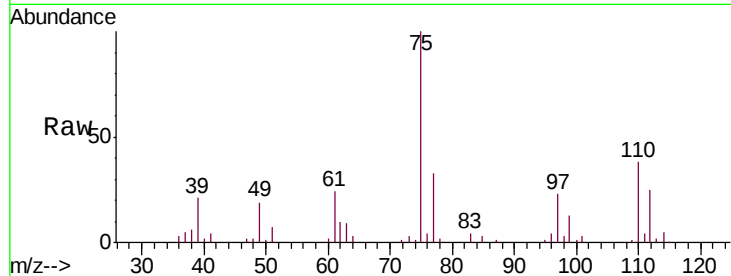




#59
 1,2,3-Trichloropropane
 Concen: 26.375 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

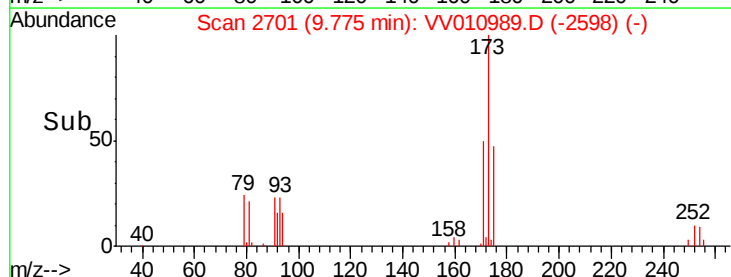
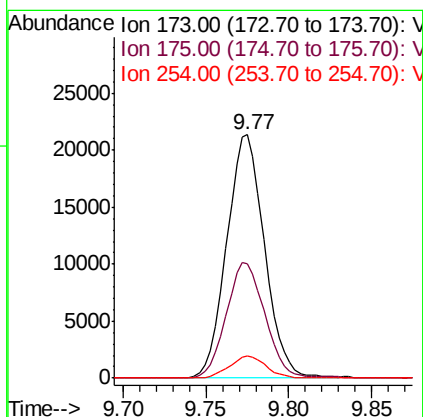
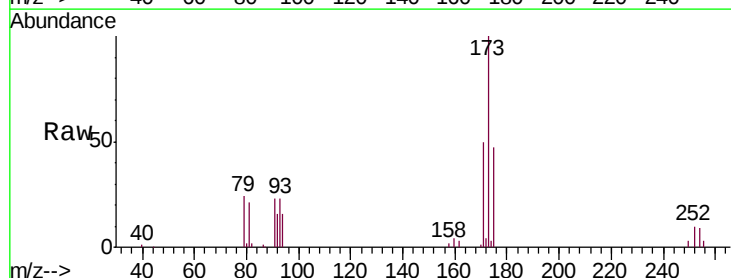
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02560

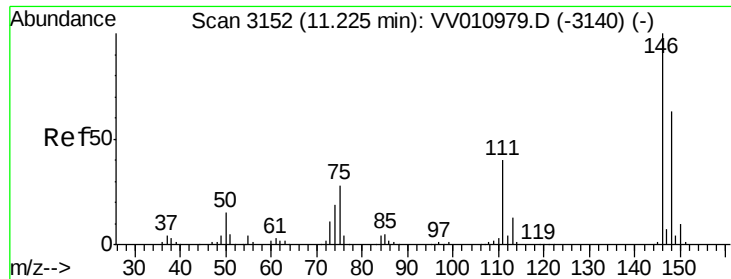
Tgt Ion: 75 Resp: 48092
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.4 38.2



#62
 Bromoform
 Concen: 29.584 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

Tgt Ion: 173 Resp: 33892
 Ion Ratio Lower Upper
 173 100
 175 48.4 40.3 60.5
 254 8.6 6.1 9.1

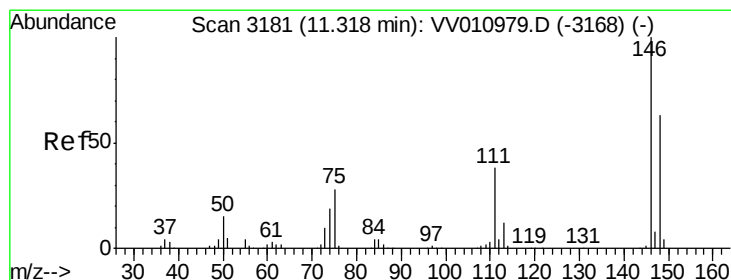
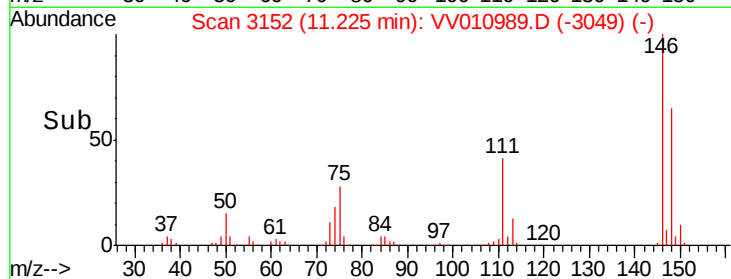
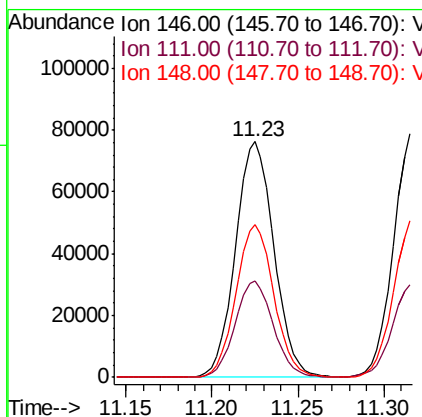
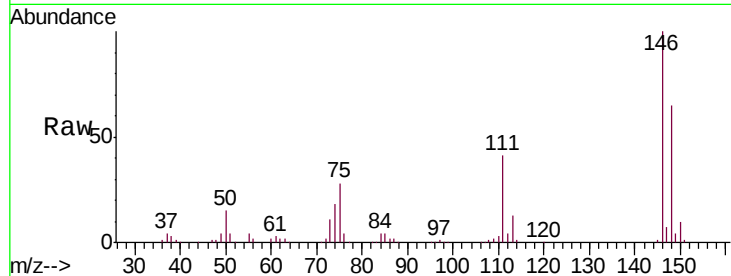




#63
 1,3-Dichlorobenzene
 Concen: 26.989 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

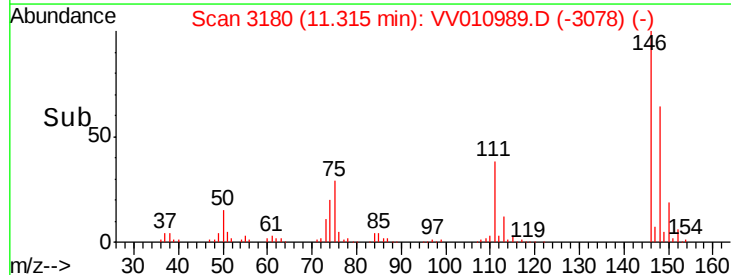
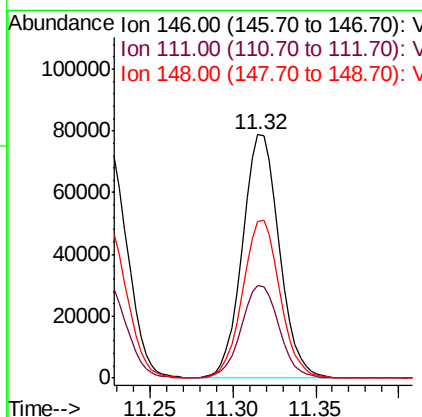
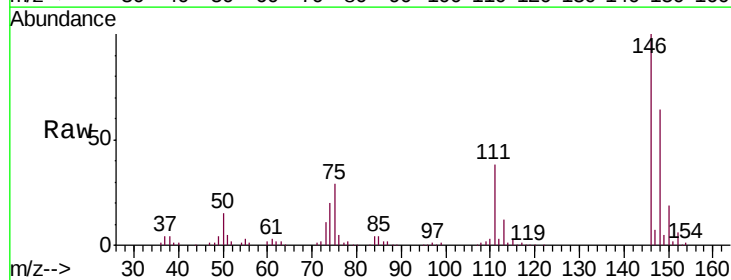
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02560

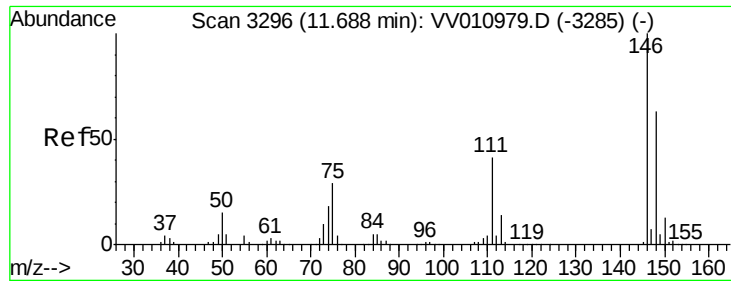
Tgt Ion:146 Resp: 118797
 Ion Ratio Lower Upper
 146 100
 111 41.0 28.4 52.8
 148 64.7 44.8 83.2



#64
 1,4-Dichlorobenzene
 Concen: 26.797 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

Tgt Ion:146 Resp: 121480
 Ion Ratio Lower Upper
 146 100
 111 38.1 26.5 49.1
 148 64.2 45.0 83.6





#65

1,2-Dichlorobenzene

Concen: 28.674 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD02560

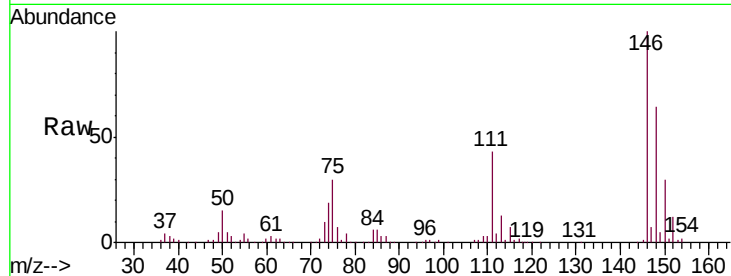
Tgt Ion:146 Resp: 122382

Ion Ratio Lower Upper

146 100

111 42.6 32.8 49.2

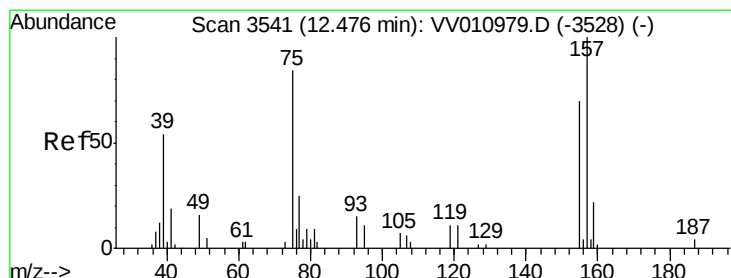
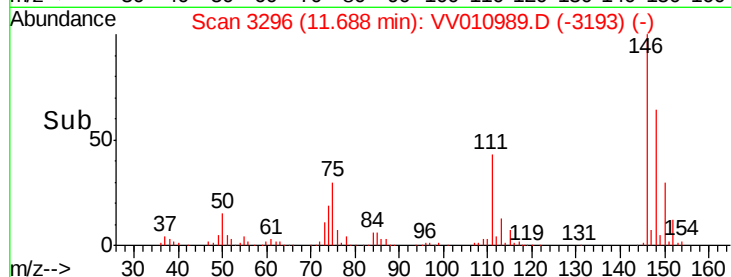
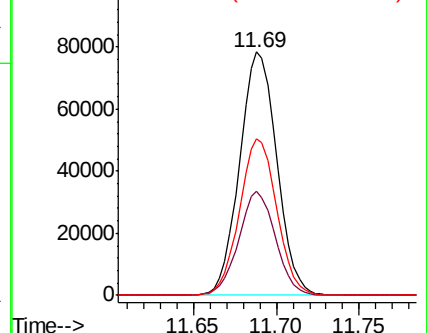
148 64.3 51.9 77.9



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: 26.801 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

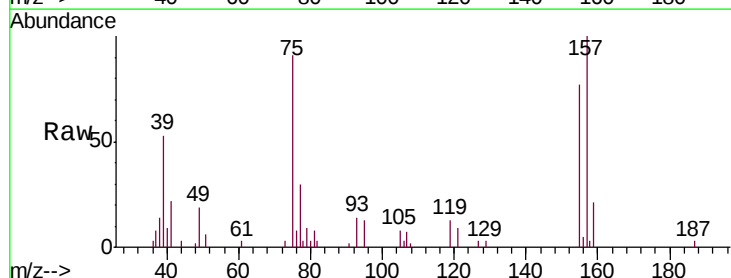
Tgt Ion: 75 Resp: 9087

Ion Ratio Lower Upper

75 100

157 110.2 87.0 130.4

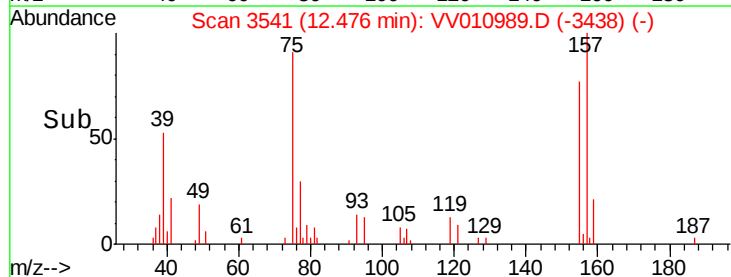
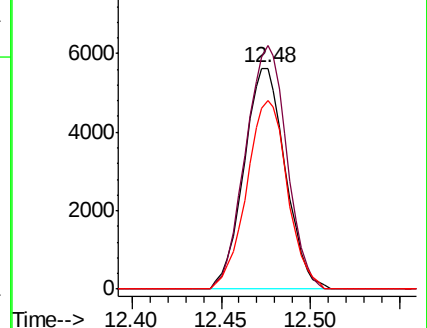
155 85.2 67.8 101.8

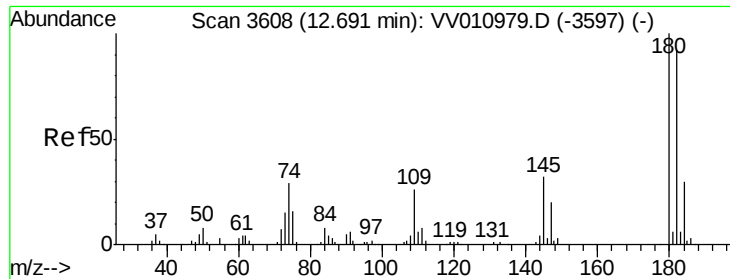


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

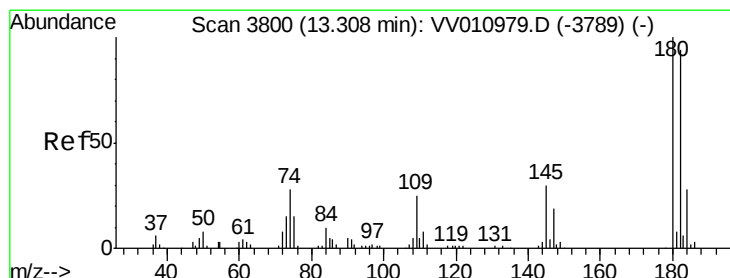
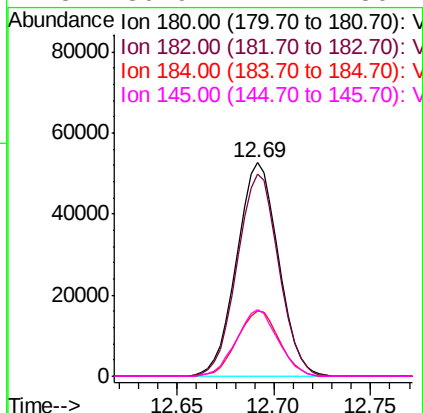
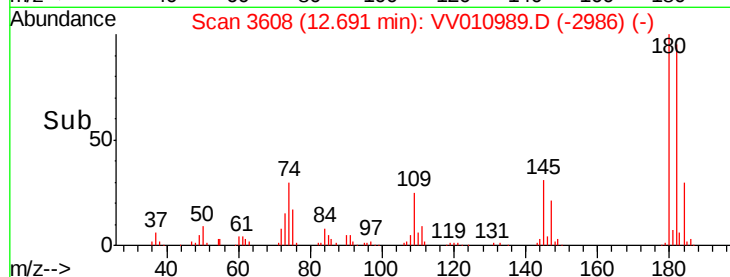
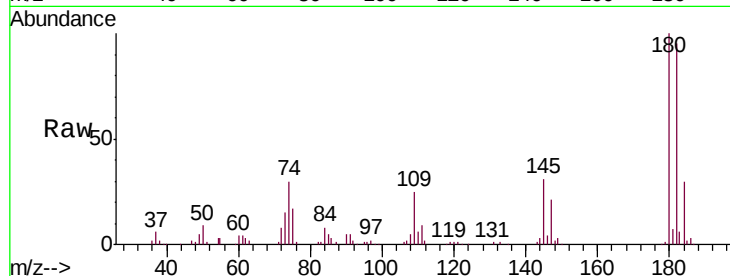




#67
 1,3,5-Trichlorobenzene
 Concen: 24.482 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

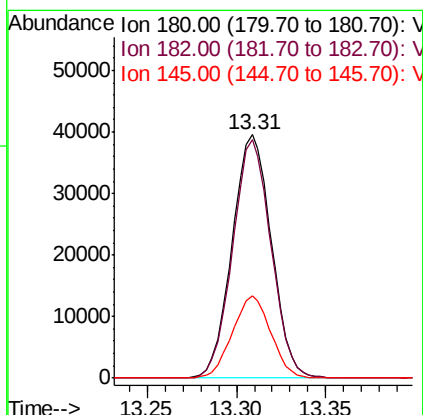
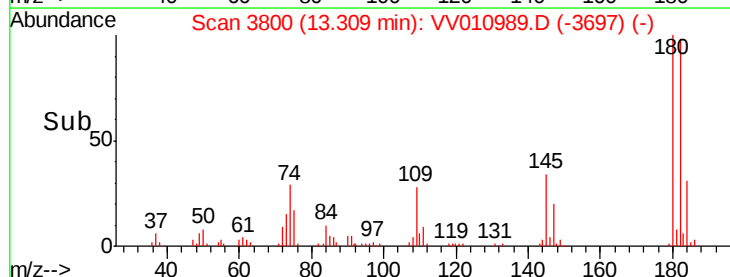
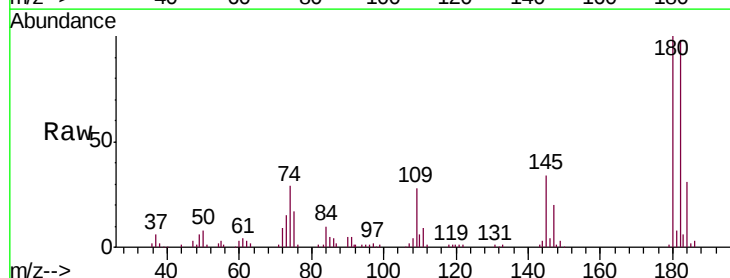
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02560

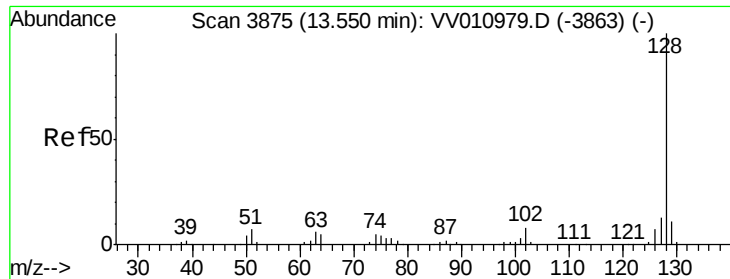
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.2	114.2
184	30.8	24.6	37.0
145	30.9	24.1	36.1



#68
 1,2,4-trichlorobenzene
 Concen: 23.704 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV010989.D
 Acq: 21 May 2019 07:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.4	113.2
145	33.1	25.1	37.7





#69

Naphthalene

Concen: 25.696 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

Instrument :

MSVOA_V

ClientSampled :

VSTD02560

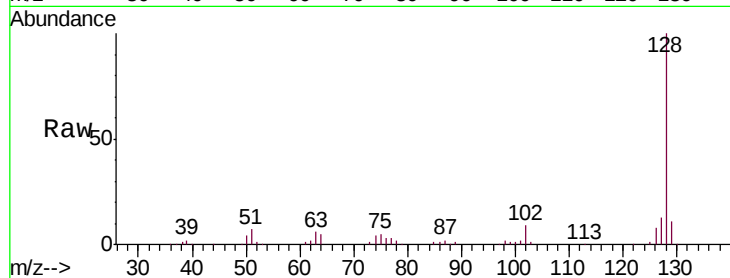
Tgt Ion:128 Resp: 131457

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

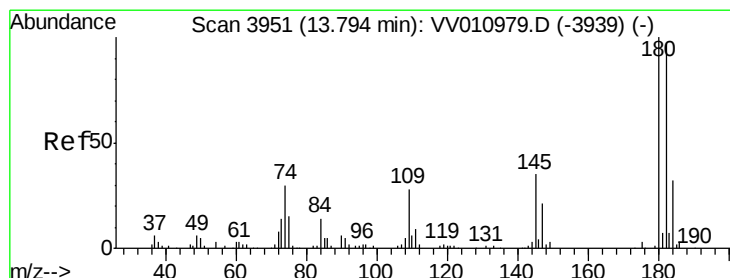
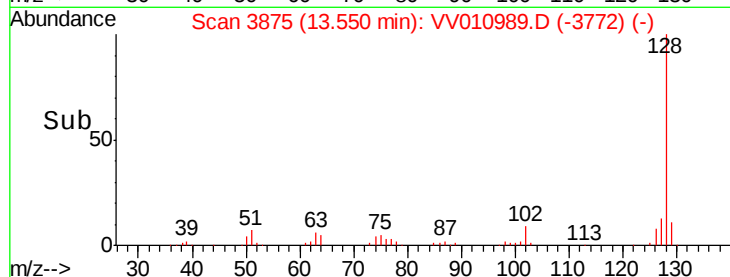
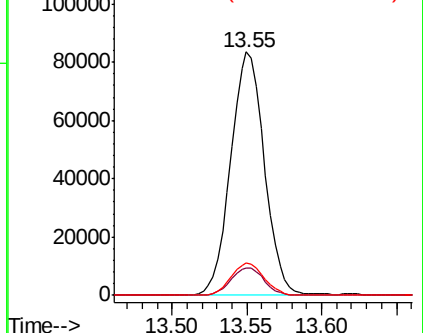
127 12.9 10.3 15.5



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: 25.145 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV010989.D

Acq: 21 May 2019 07:14

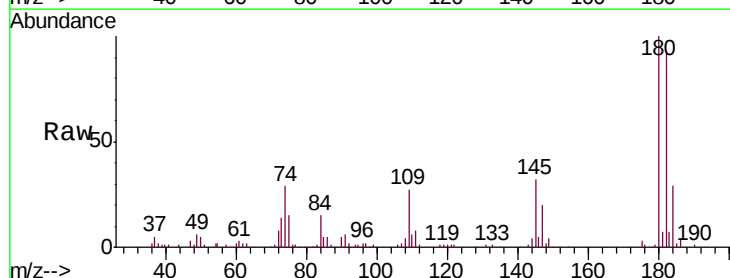
Tgt Ion:180 Resp: 62650

Ion Ratio Lower Upper

180 100

182 95.7 75.7 113.5

145 34.4 26.9 40.3



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

