

Data File : VV010645.D
Acq On : 03 May 2019 03:23
Operator : SY/MD
Sample : K2603-18
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
GAJ70

Quant Time: May 03 04:02:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050219S.M
Quant Title : VOC Analysis
QLast Update : Fri May 03 03:59:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	19751	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	19754	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	7215	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	3144	12.57	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	50.28%
7) Chloroethane-d5	1.58	69	3440	19.65	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.60%
10) 1,1-Dichloroethene-d2	2.12	63	5660	12.91	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	51.64%
20) 2-Butanone-d5	3.94	46	4593	60.37	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	120.74%
24) Chloroform-d	4.40	84	14852	29.11	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	116.44%
26) 1,2-Dichloroethane-d4	5.08	65	9802	33.53	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	134.12%#
29) Benzene-d6	5.10	84	26113	25.51	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.04%
33) 1,2-Dichloropropane-d6	6.12	67	10007	31.91	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	127.64%#
37) Toluene-d8	7.36	98	22395	22.77	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.08%
38) trans-1,3-Dichloropropene-	7.66	79	3354	25.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	103.52%
39) 2-Hexanone-d5	8.14	63	2311	41.39	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	82.78%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	8667	30.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	122.68%#
61) 1,2-Dichlorobenzene-d4	11.67	152	8058	29.02	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	116.08%

Target Compounds

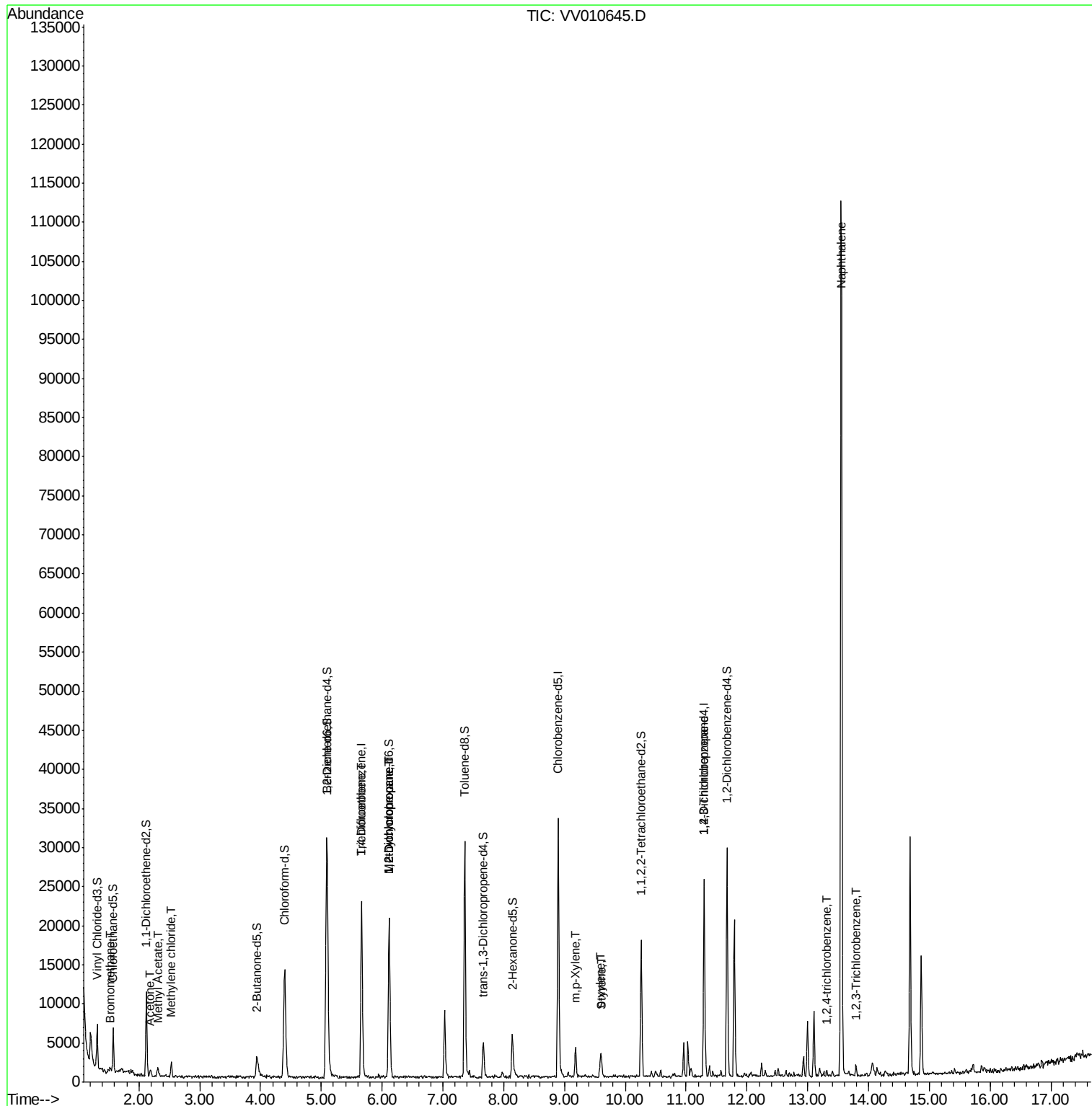
						Qvalue
6) Bromomethane	1.54	94	121	0.976	ug/L	84
13) Acetone	2.19	43	1075	16.482	ug/L	57
15) Methyl Acetate	2.32	43	129	1.012	ug/L #	50
16) Methylene chloride	2.53	84	773	2.806	ug/L	81
35) Trichloroethene	5.66	95	548	2.035	ug/L #	4
36) Methylcyclohexane	6.11	83	2366	6.148	ug/L #	18
40) 1,2-Dichloropropane	6.12	63	844	3.436	ug/L #	87
54) m,p-Xylene	9.18	106	1229	2.752	ug/L	97
55) o-xylene	9.59	106	710	1.627	ug/L	92
56) Styrene	9.61	104	1326	1.791	ug/L	94
59) 1,2,3-Trichloropropane	11.30	75	788	4.094	ug/L	92
68) 1,2,4-trichlorobenzene	13.31	180	200	0.829	ug/L #	64
69) Naphthalene	13.55	128	86172	186.854	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	386	1.697	ug/L #	25

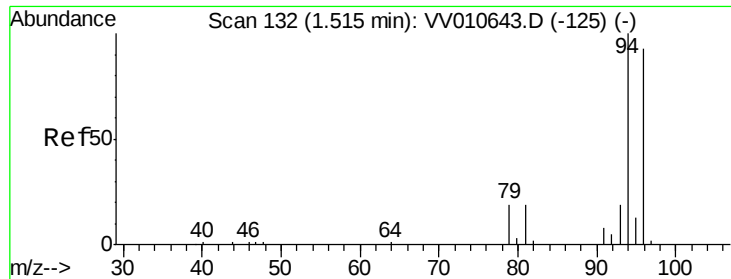
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 0.976 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.02 min

Lab File: VV010645.D

Acq: 03 May 2019 03:23

Instrument :

MSVOA_V

ClientSampleId :

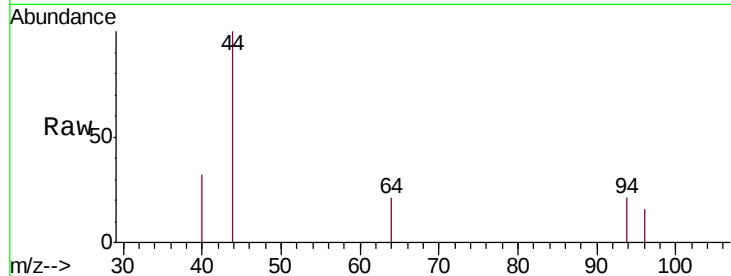
GAJ70

Tgt Ion: 94 Resp: 121

Ion Ratio Lower Upper

94 100

96 78.5 9.4 178.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

200

150

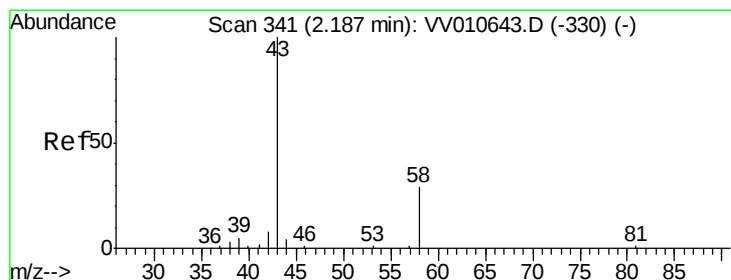
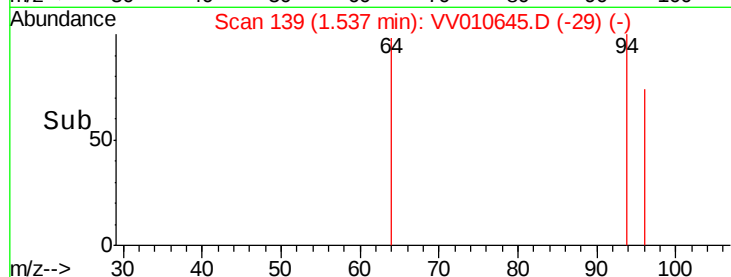
100

50

0

Time-->

1.52 1.53 1.54



#13

Acetone

Concen: 16.482 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV010645.D

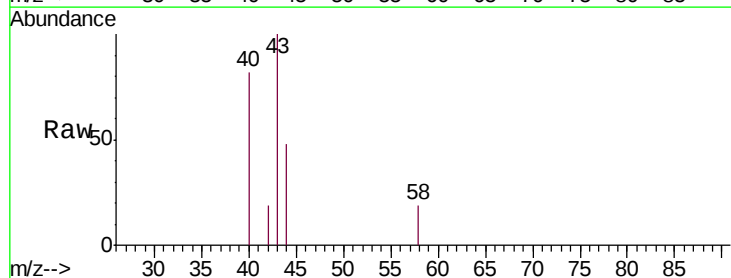
Acq: 03 May 2019 03:23

Tgt Ion: 43 Resp: 1075

Ion Ratio Lower Upper

43 100

58 6.0 0.0 58.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2.19

600

500

400

300

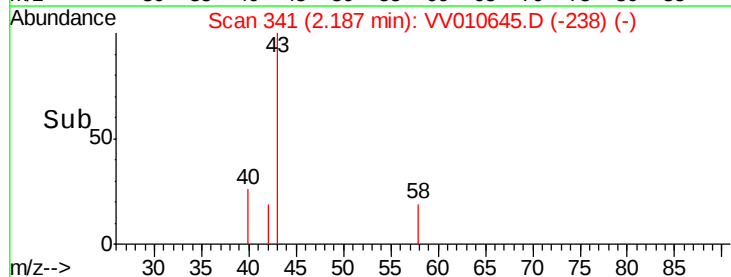
200

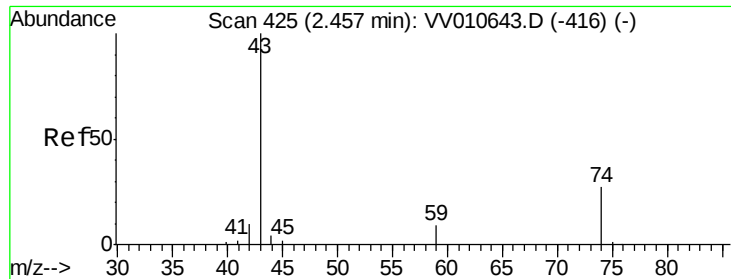
100

0

Time-->

2.15 2.20

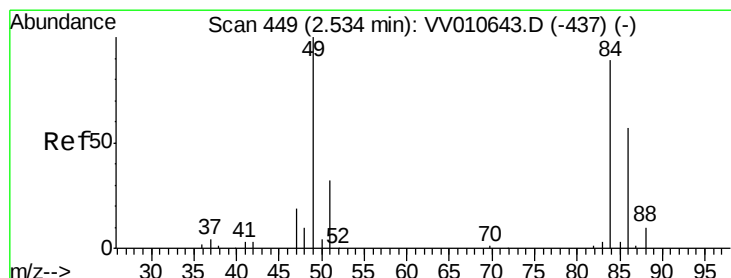
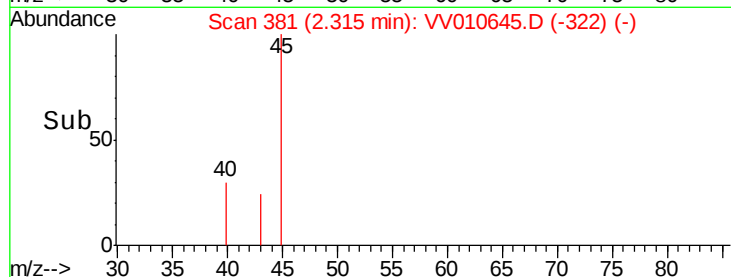
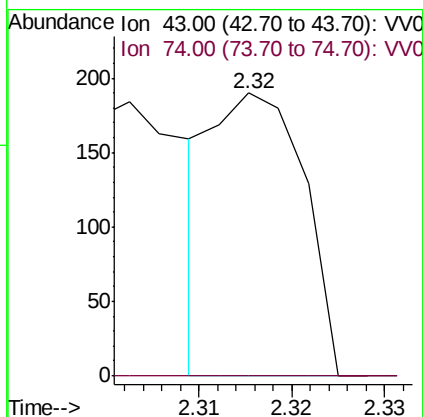
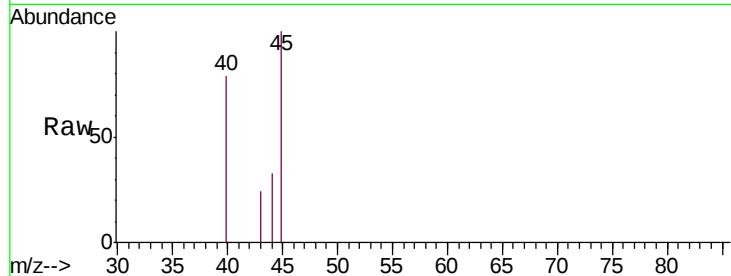




#15
Methyl Acetate
Concen: 1.012 ug/L
RT: 2.32 min Scan# 381
Delta R.T. -0.14 min
Lab File: VV010645.D
Acq: 03 May 2019 03:23

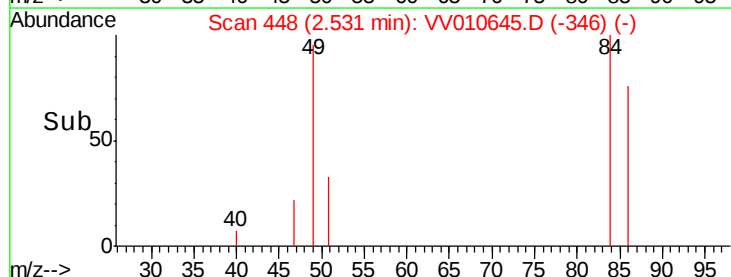
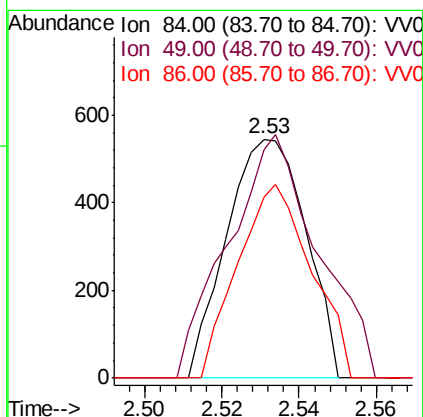
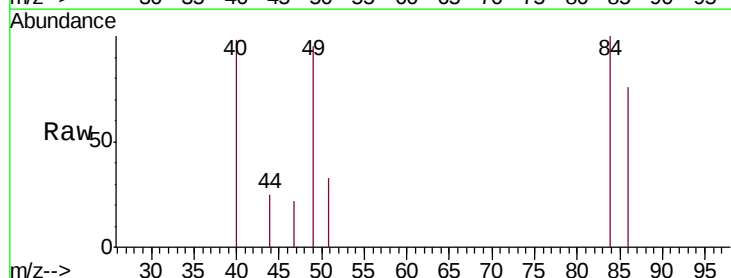
Instrument :
MSVOA_V
ClientSampleId :
GAJ70

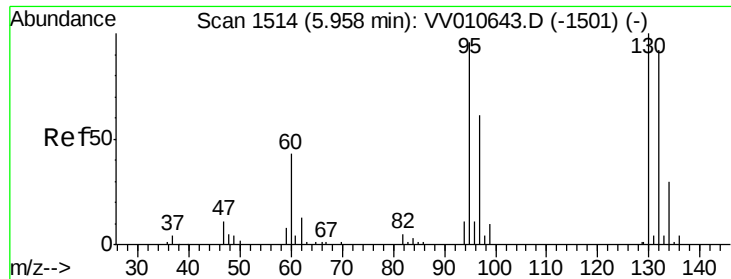
Tgt Ion: 43 Resp: 129
Ion Ratio Lower Upper
43 100
74 0.0 20.0 30.0#



#16
Methylene chloride
Concen: 2.806 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV010645.D
Acq: 03 May 2019 03:23

Tgt Ion: 84 Resp: 773
Ion Ratio Lower Upper
84 100
49 95.4 81.9 152.1
86 75.8 44.0 81.6





#35

Trichloroethene

Concen: 2.035 ug/L

RT: 5.66 min Scan# 1422

Delta R.T. -0.30 min

Lab File: VV010645.D

Acq: 03 May 2019 03:23

Instrument :

MSVOA_V

ClientSampleId :

GAJ70

Tgt Ion: 95 Resp: 548

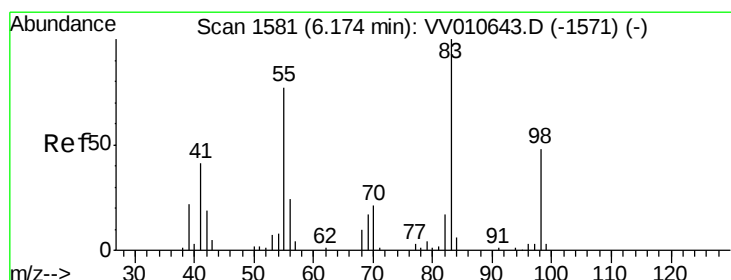
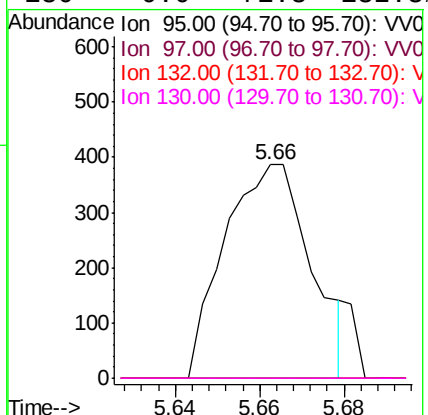
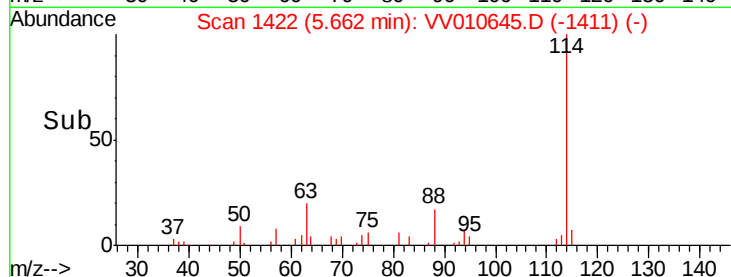
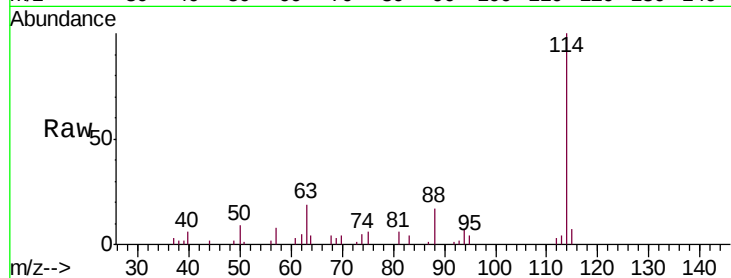
Ion Ratio Lower Upper

95 100

97 0.0 45.0 83.6#

132 0.0 69.9 129.9#

130 0.0 71.3 132.3#



#36

Methylcyclohexane

Concen: 6.148 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.06 min

Lab File: VV010645.D

Acq: 03 May 2019 03:23

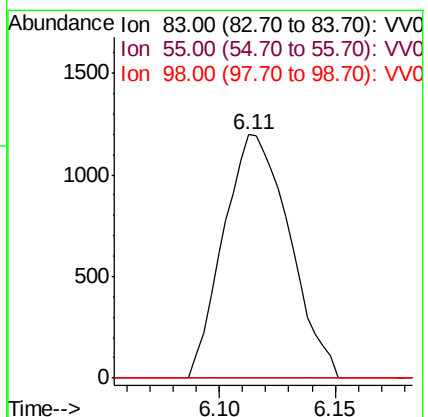
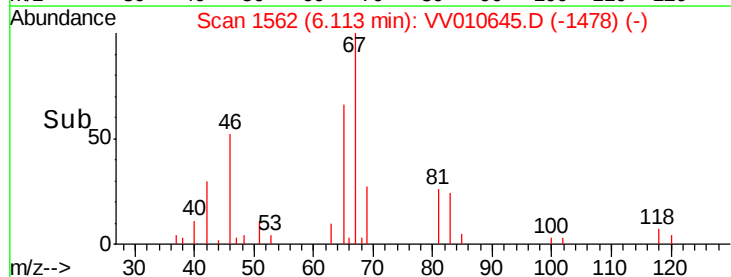
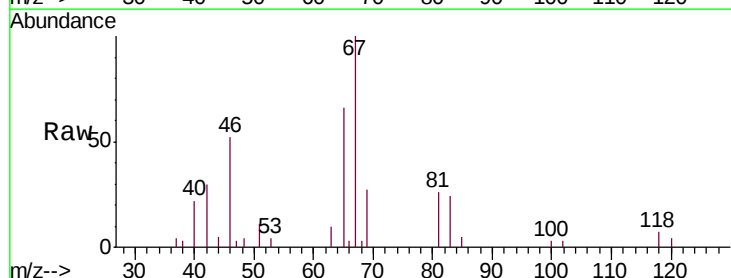
Tgt Ion: 83 Resp: 2366

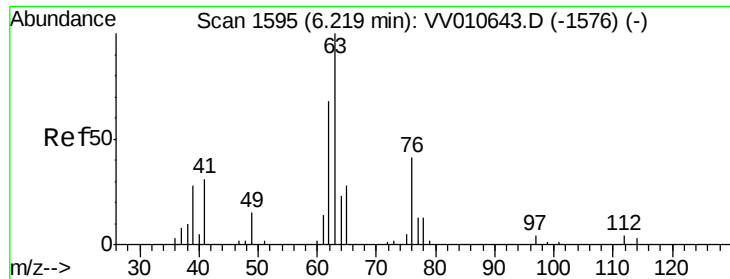
Ion Ratio Lower Upper

83 100

55 0.0 61.4 92.0#

98 0.0 37.4 56.2#

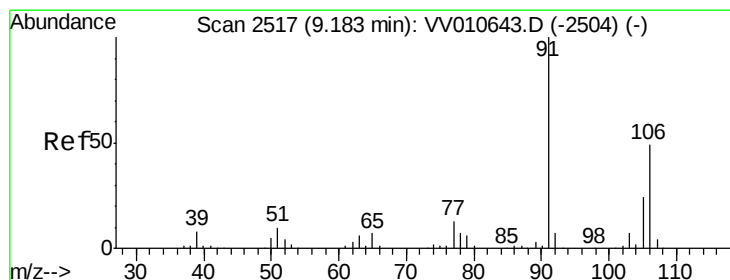
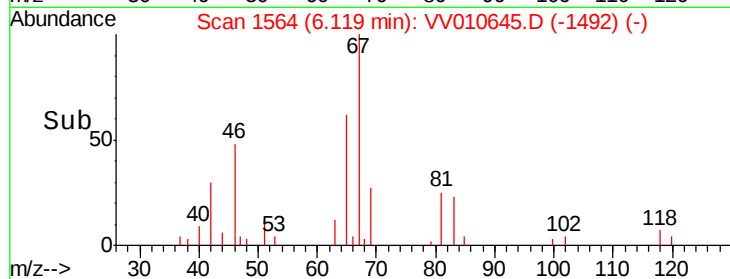
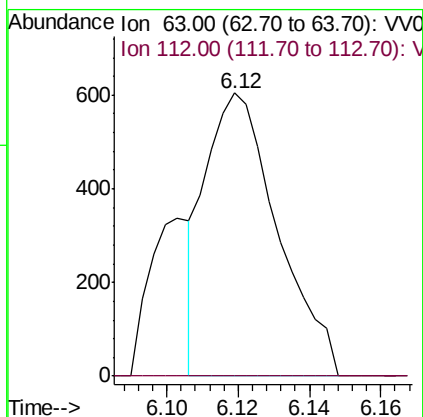
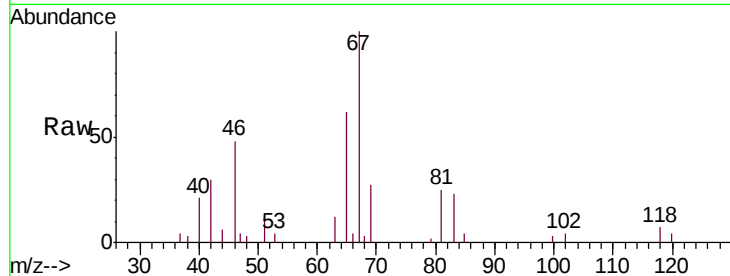




#40
 1,2-Dichloropropane
 Concen: 3.436 ug/L
 RT: 6.12 min Scan# 1564
 Delta R.T. -0.10 min
 Lab File: VV010645.D
 Acq: 03 May 2019 03:23

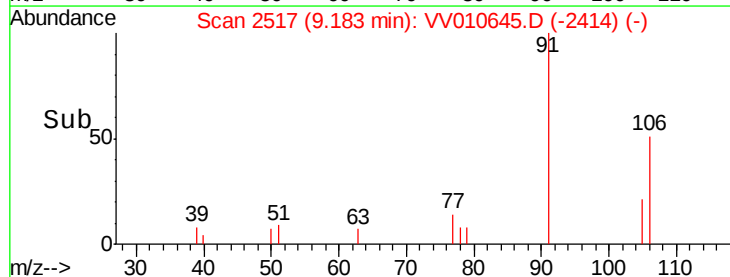
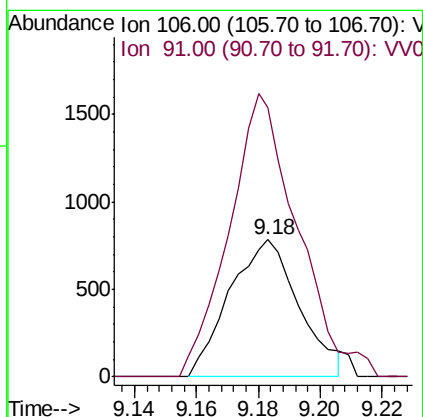
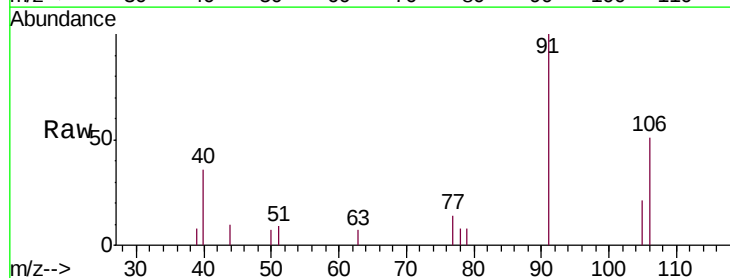
Instrument :
 MSVOA_V
 ClientSampled :
 GAJ70

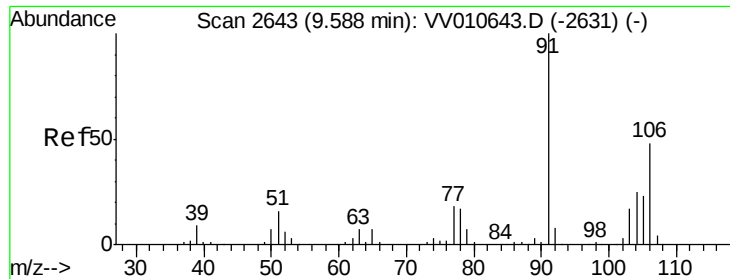
Tgt Ion: 63 Resp: 844
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#54
 m,p-Xylene
 Concen: 2.752 ug/L
 RT: 9.18 min Scan# 2517
 Delta R.T. 0.00 min
 Lab File: VV010645.D
 Acq: 03 May 2019 03:23

Tgt Ion: 106 Resp: 1229
 Ion Ratio Lower Upper
 106 100
 91 196.3 140.4 260.8





#55

o-xylene

Concen: 1.627 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV010645.D

Acq: 03 May 2019 03:23

Instrument :

MSVOA_V

ClientSampled :

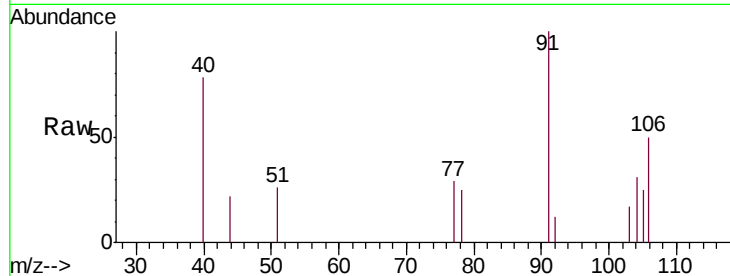
GAJ70

Tgt Ion:106 Resp: 710

Ion Ratio Lower Upper

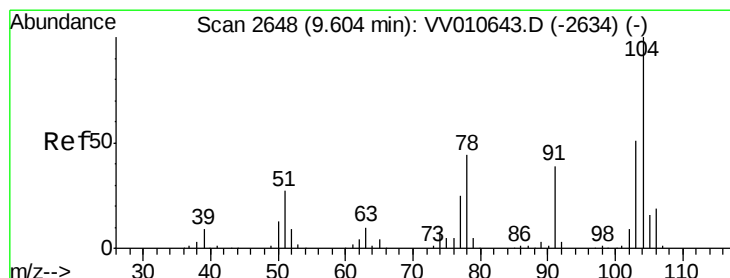
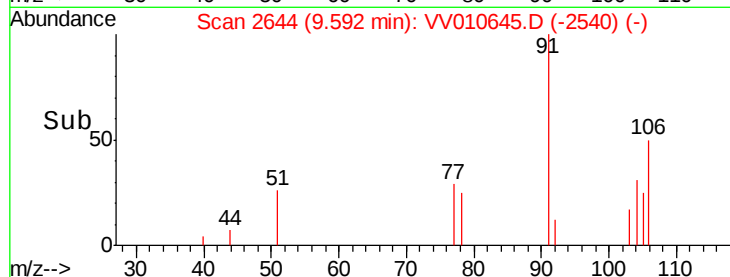
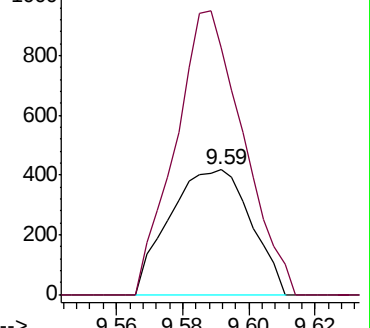
106 100

91 198.3 147.3 273.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 1.791 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV010645.D

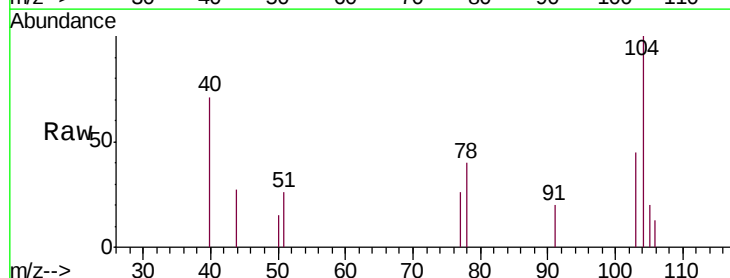
Acq: 03 May 2019 03:23

Tgt Ion:104 Resp: 1326

Ion Ratio Lower Upper

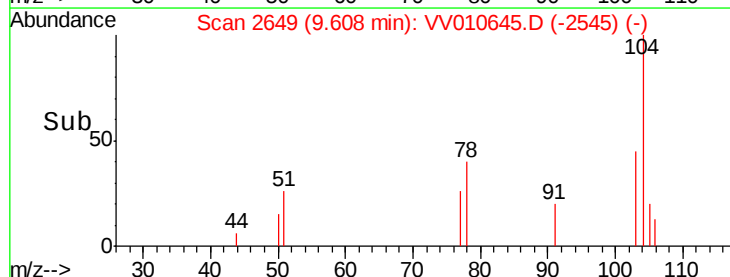
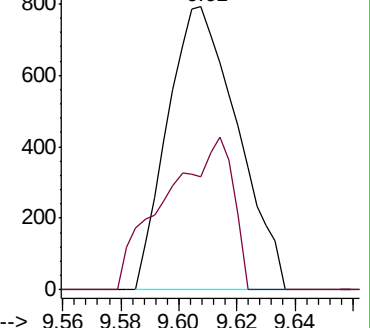
104 100

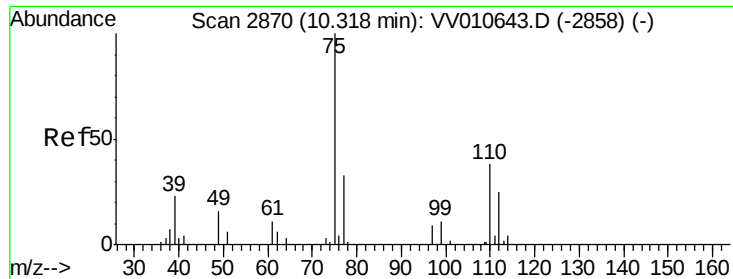
78 39.8 30.4 56.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

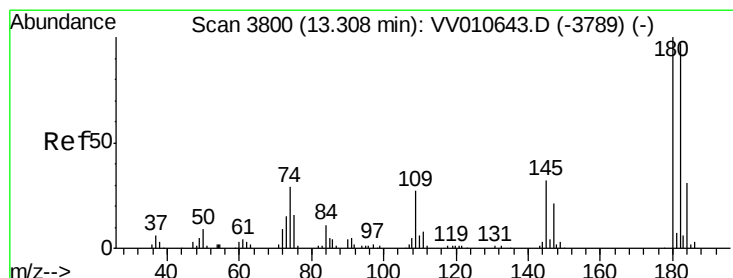
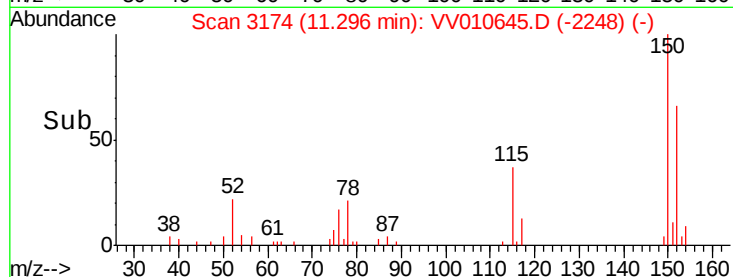
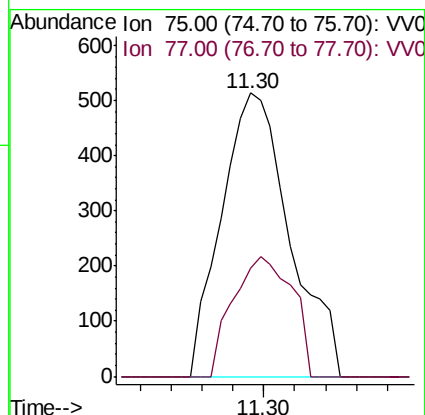
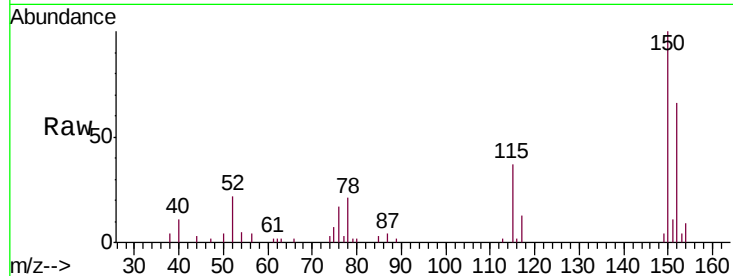




#59
 1,2,3-Trichloropropane
 Concen: 4.094 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.98 min
 Lab File: VV010645.D
 Acq: 03 May 2019 03:23

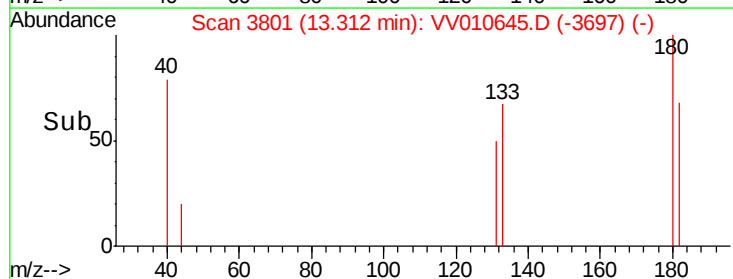
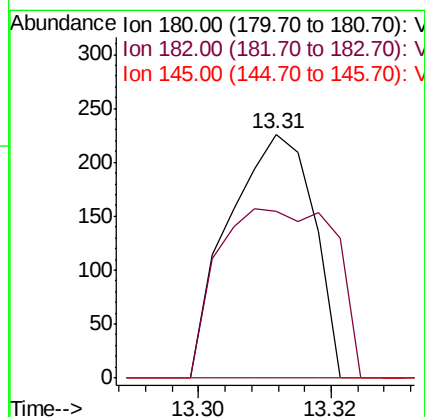
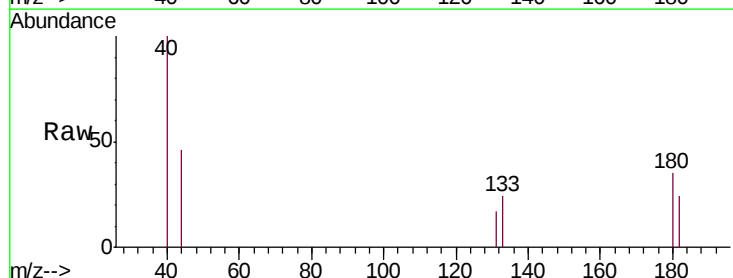
Instrument :
 MSVOA_V
 ClientSampleId :
 GAJ70

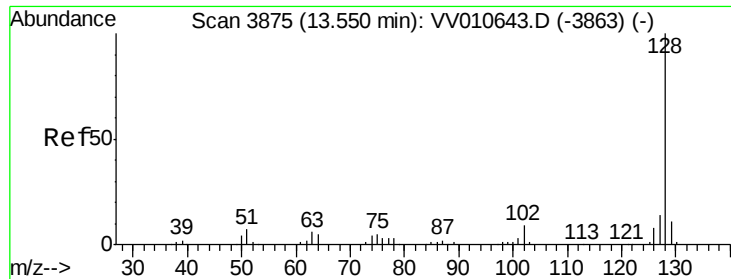
Tgt Ion: 75 Resp: 788
 Ion Ratio Lower Upper
 75 100
 77 36.5 25.6 38.4



#68
 1,2,4-trichlorobenzene
 Concen: 0.829 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010645.D
 Acq: 03 May 2019 03:23

Tgt Ion: 180 Resp: 200
 Ion Ratio Lower Upper
 180 100
 182 68.0 76.1 114.1#
 145 0.0 26.0 39.0#





#69

Naphthalene

Concen: 186.854 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV010645.D

Acq: 03 May 2019 03:23

Instrument :

MSVOA_V

ClientSampleId :

GAJ70

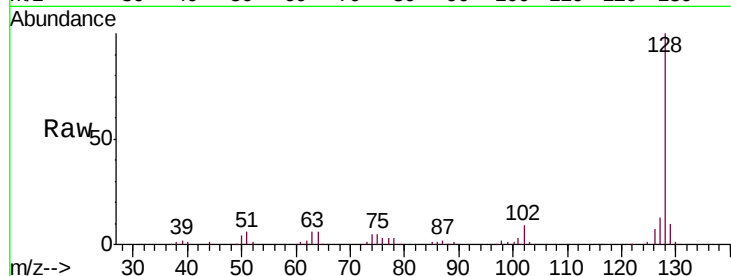
Tgt Ion:128 Resp: 86172

Ion Ratio Lower Upper

128 100

129 10.5 8.6 13.0

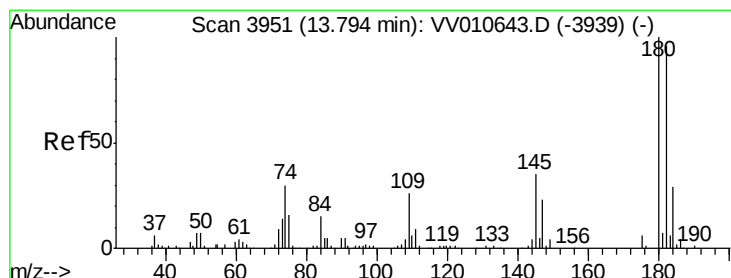
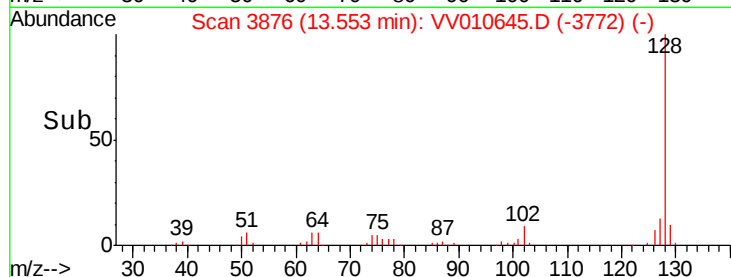
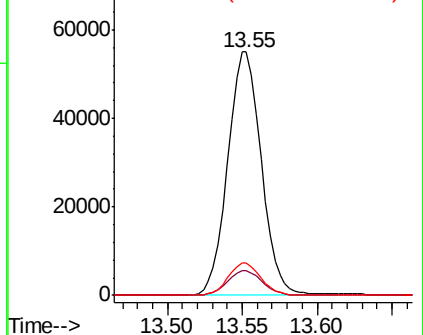
127 12.9 10.6 15.8



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: 1.697 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010645.D

Acq: 03 May 2019 03:23

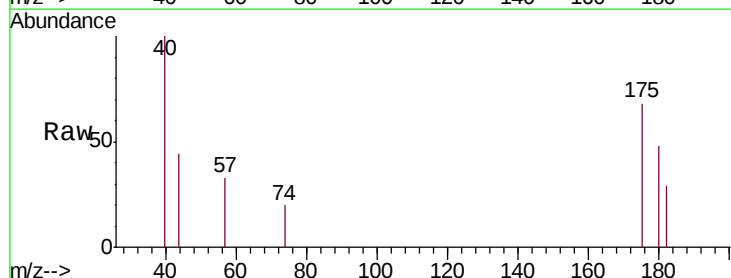
Tgt Ion:180 Resp: 386

Ion Ratio Lower Upper

180 100

182 18.9 79.0 118.6#

145 0.0 28.2 42.4#



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

