

Data File : VV010845.D
Acq On : 13 May 2019 18:18
Operator : SY/MD
Sample : VSTD2.501
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.562

Quant Time: May 13 20:40:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Mon May 13 20:37:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	128872	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	127126	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	59159	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	4370	2.18	ug/L	0.00
7) Chloroethane-d5	1.56	69	3072	1.86	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	8514	1.96	ug/L	0.00
20) 2-Butanone-d5	3.96	46	2332	3.88	ug/L	0.02
24) Chloroform-d	4.40	84	9542	2.72	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	5374	2.45	ug/L	0.00
29) Benzene-d6	5.10	84	17944	2.68	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	5891	2.76	ug/L	0.00
37) Toluene-d8	7.36	98	17010	2.65	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	2428	2.50	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	2016	4.52	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	5071	2.53	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	6362	2.78	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	4164	2.333	ug/L	97
3) Chloromethane	1.25	50	5529	2.546	ug/L	93
5) Vinyl chloride	1.32	62	5410	2.146	ug/L #	75
6) Bromomethane	1.51	94	1089	0.891	ug/L	97
9) Trichlorofluoromethane	1.76	101	7980	2.103	ug/L	95
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4892	2.258	ug/L	96
12) 1,1-Dichloroethene	2.13	96	4156	2.048	ug/L	88
13) Acetone	2.19	43	3850	4.139	ug/L	89
14) Carbon disulfide	2.31	76	12983	2.604	ug/L	98
15) Methyl Acetate	2.46	43	3242	2.918	ug/L #	78
16) Methylene chloride	2.53	84	6506	3.265	ug/L	98
17) Methyl tert-butyl Ether	2.81	73	12086	2.379	ug/L #	95
18) trans-1,2-Dichloroethene	2.79	96	4877	2.659	ug/L	92
19) 1,1-Dichloroethane	3.22	63	9153	2.585	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	5293	2.527	ug/L	96
25) Chloroform	4.42	83	9801	2.513	ug/L	99
27) 1,2-Dichloroethane	5.18	62	6713	2.355	ug/L	97
30) Cyclohexane	4.72	56	7075	2.219	ug/L #	91
31) 1,1,1-Trichloroethane	4.65	97	7728	2.438	ug/L	97
32) Carbon tetrachloride	4.87	117	6619	2.397	ug/L	96
34) Benzene	5.14	78	20291	2.719	ug/L	100
35) Trichloroethene	5.96	95	5276	2.524	ug/L	97
36) Methylcyclohexane	6.17	83	7562	2.257	ug/L #	74
40) 1,2-Dichloropropane	6.22	63	5522	2.782	ug/L #	95
41) Bromodichloromethane	6.55	83	6952	2.549	ug/L #	97
42) cis-1,3-Dichloropropene	7.07	75	6596	2.101	ug/L	92
43) 4-Methyl-2-pentanone	7.27	43	6941	4.154	ug/L	98
44) Toluene	7.43	91	21825	2.575	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	6144	2.324	ug/L	97
46) 1,1,2-Trichloroethane	7.88	97	4257	2.610	ug/L	98

Data File : VV010845.D
Acq On : 13 May 2019 18:18
Operator : SY/MD
Sample : VSTD2.501
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.562

Quant Time: May 13 20:40:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Mon May 13 20:37:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.02	164	4044	2.671	ug/L	86
49) 2-Hexanone	8.19	43	5071	3.991	ug/L #	92
50) Dibromochloromethane	8.29	129	4393	2.342	ug/L	89
51) 1,2-Dibromoethane	8.40	107	3890	2.470	ug/L #	99
52) Chlorobenzene	8.92	112	14611	2.639	ug/L	96
53) Ethylbenzene	9.05	91	22834	2.323	ug/L	97
54) m,p-Xylene	9.18	106	8977	2.445	ug/L	94
55) o-xylene	9.59	106	8143	2.236	ug/L	96
56) Styrene	9.60	104	13302	2.159	ug/L	94
57) Isopropylbenzene	9.97	105	20840	2.145	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.29	83	5620	2.630	ug/L #	93
59) 1,2,3-Trichloropropane	10.32	75	4018	2.409	ug/L	99
62) Bromoform	9.78	173	2120	2.104	ug/L	94
63) 1,3-Dichlorobenzene	11.22	146	10546	2.561	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	11041	2.625	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	10323	2.581	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.69	75	1610	4.338	ug/L #	1
67) 1,3,5-Trichlorobenzene	12.69	180	8130	2.741	ug/L	94
68) 1,2,4-trichlorobenzene	13.31	180	5725	2.494	ug/L	95
69) Naphthalene	13.55	128	10254	2.087	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	5220	2.425	ug/L	93

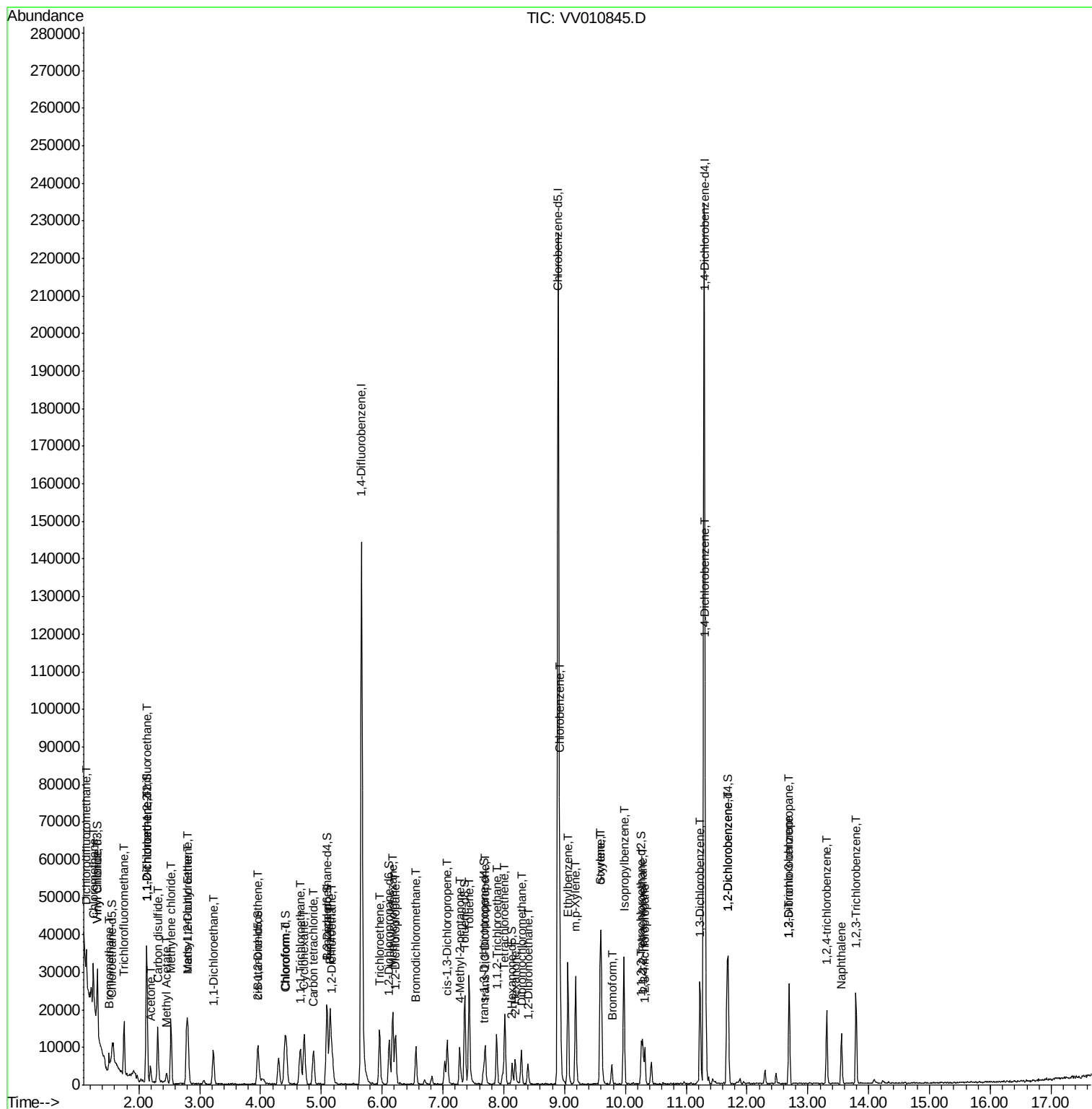
(#) = qualifier out of range (m) = manual integration (+) = signals summed

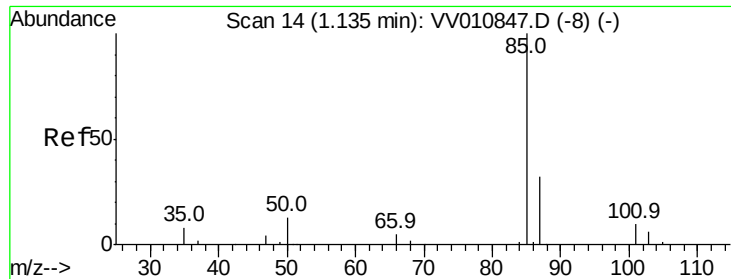
Data File : VV010845.D

```
Acq On       : 13 May 2019   18:18
Operator     : SY/MD
Sample       : VSTD2.501
Misc         : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial     : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.562

Quant Time: May 13 20:40:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Mon May 13 20:37:54 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.333 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV010845.D

Acq: 13 May 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

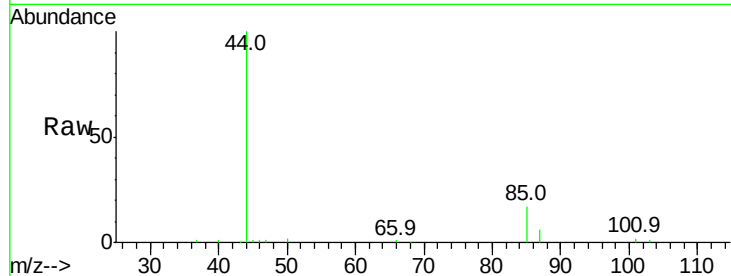
VSTD2.562

Tgt Ion: 85 Resp: 4164

Ion Ratio Lower Upper

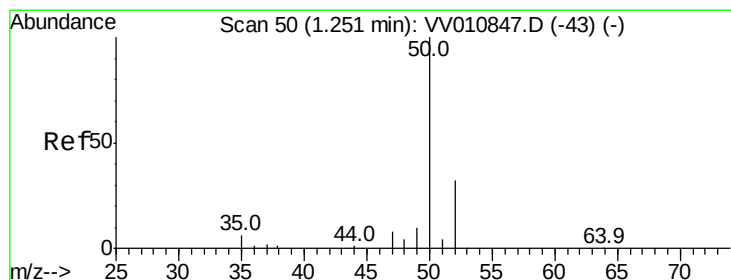
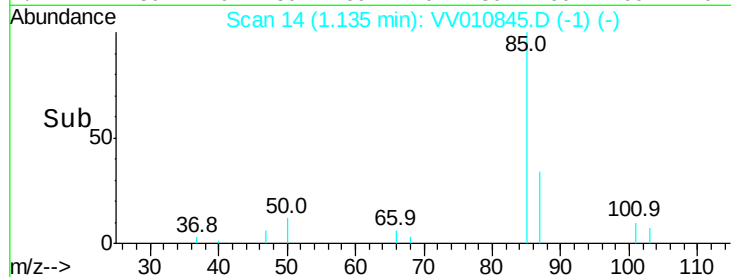
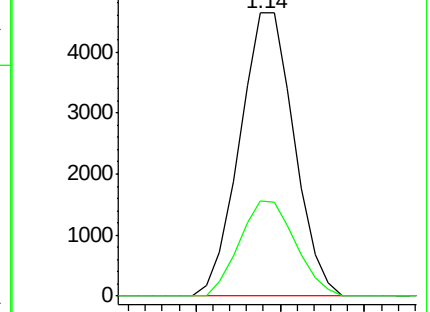
85 100

87 34.5 23.0 42.6



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.546 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV010845.D

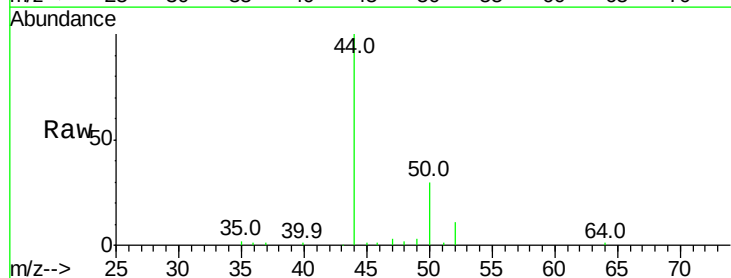
Acq: 13 May 2019 18:18

Tgt Ion: 50 Resp: 5529

Ion Ratio Lower Upper

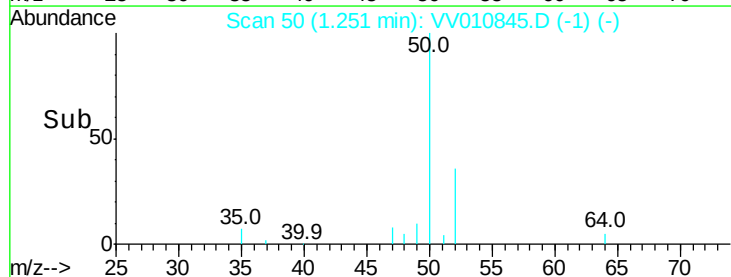
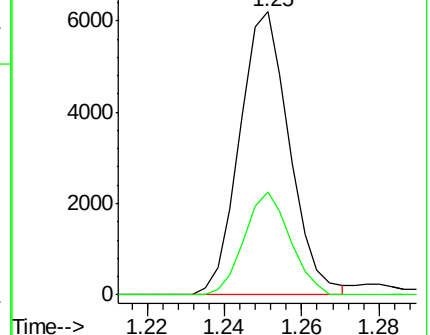
50 100

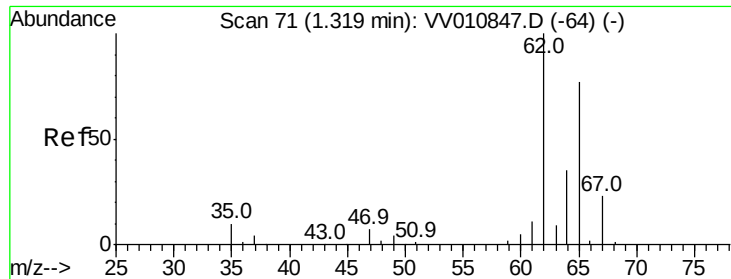
52 36.3 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.146 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV010845.D

Acq: 13 May 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

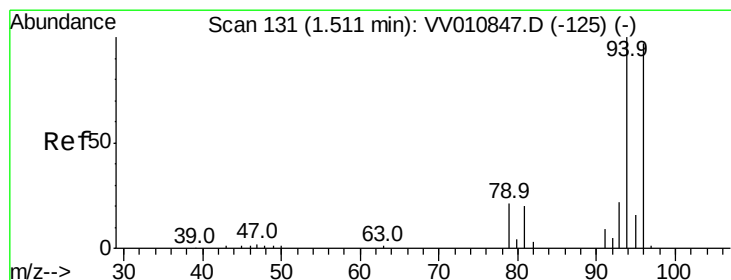
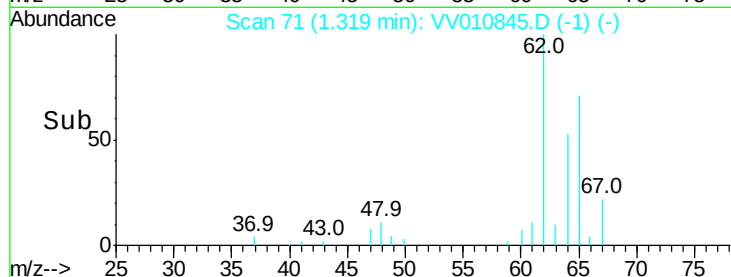
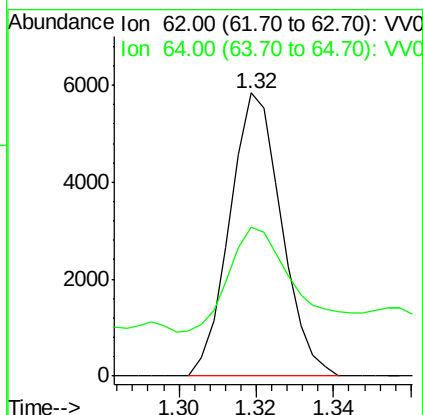
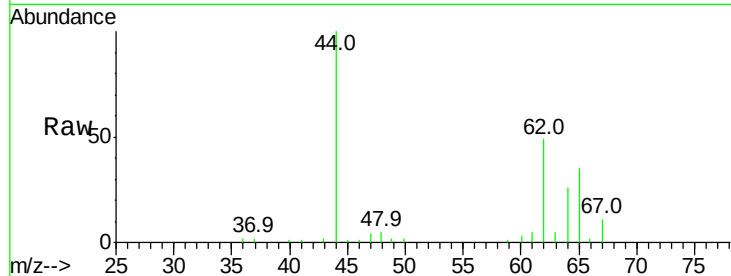
VSTD2.562

Tgt Ion: 62 Resp: 5410

Ion Ratio Lower Upper

62 100

64 52.5 26.1 48.5#



#6

Bromomethane

Concen: 0.891 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.00 min

Lab File: VV010845.D

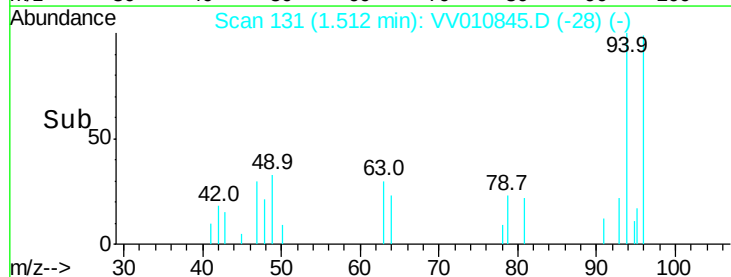
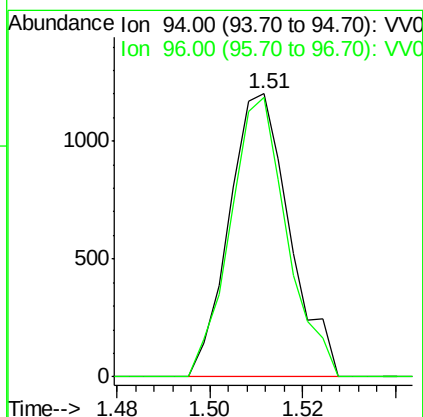
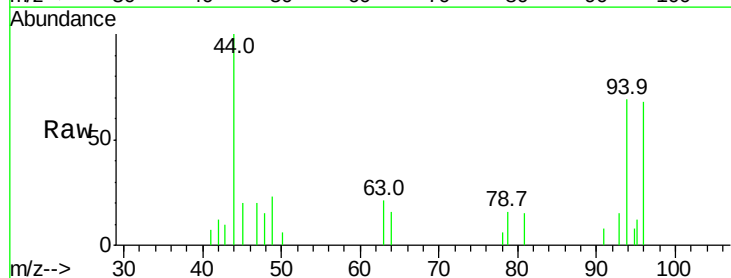
Acq: 13 May 2019 18:18

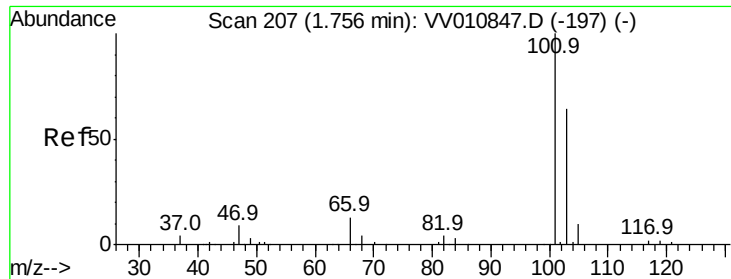
Tgt Ion: 94 Resp: 1089

Ion Ratio Lower Upper

94 100

96 92.6 9.6 181.6



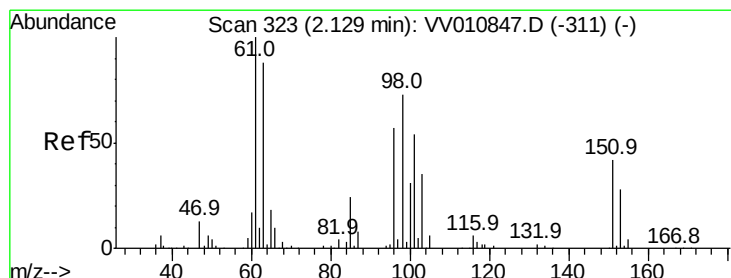
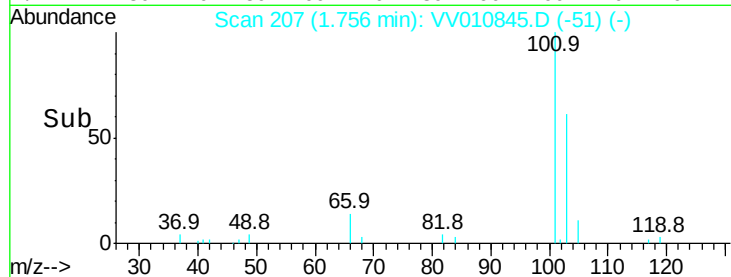
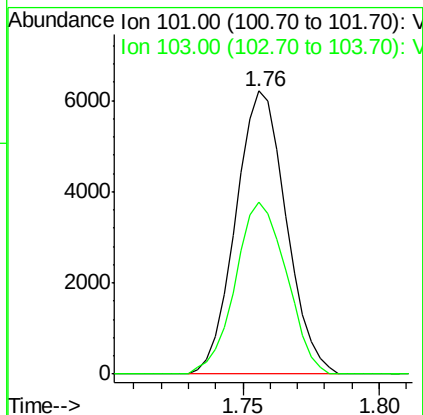
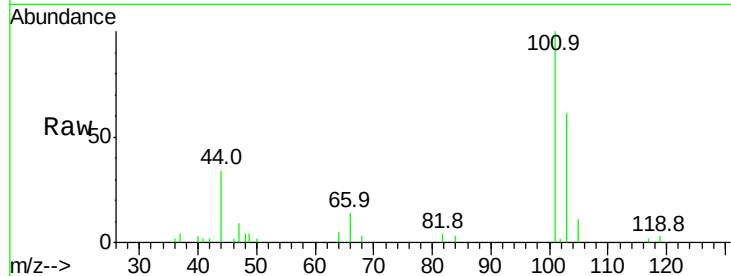


#9

Trichlorofluoromethane
 Concen: 2.103 ug/L
 RT: 1.76 min Scan# 207
 Delta R.T. 0.00 min
 Lab File: VV010845.D
 Acq: 13 May 2019 18:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.562

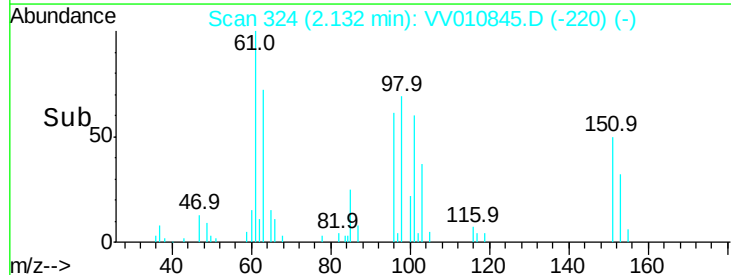
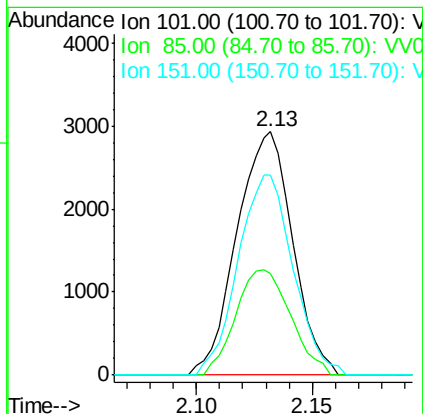
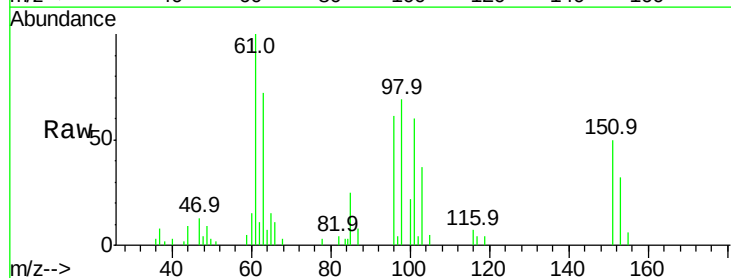
Tgt Ion:101 Resp: 7980
 Ion Ratio Lower Upper
 101 100
 103 61.3 45.4 84.4

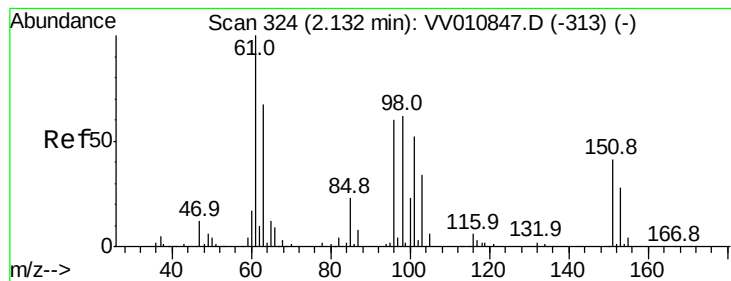


#11

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 2.258 ug/L
 RT: 2.13 min Scan# 324
 Delta R.T. 0.00 min
 Lab File: VV010845.D
 Acq: 13 May 2019 18:18

Tgt Ion:101 Resp: 4892
 Ion Ratio Lower Upper
 101 100
 85 42.6 35.7 53.5
 151 81.1 62.2 93.2





#12

1,1-Dichloroethene

Concen: 2.048 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV010845.D

Acq: 13 May 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.562

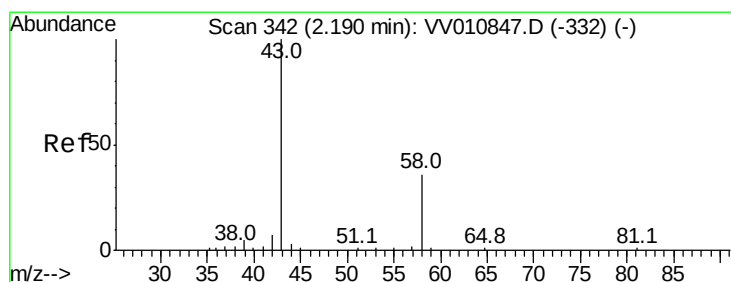
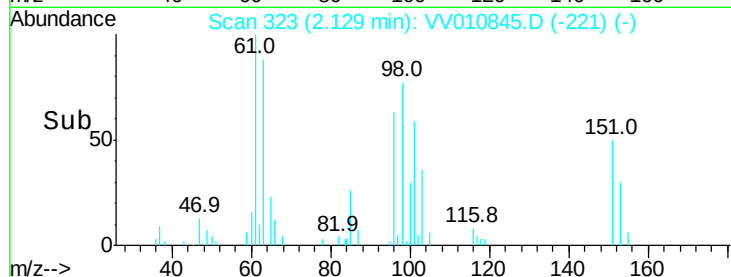
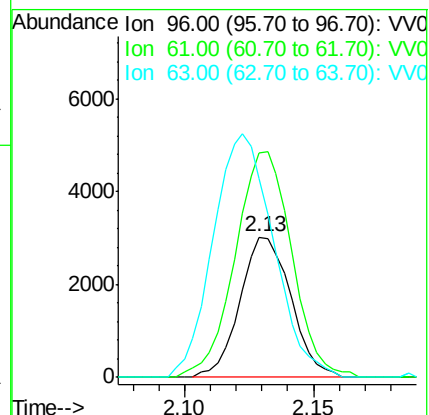
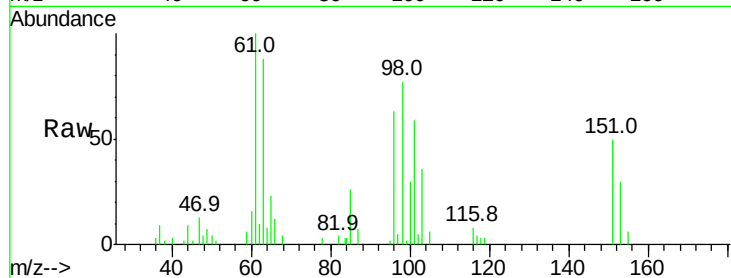
Tgt Ion: 96 Resp: 4156

Ion Ratio Lower Upper

96 100

61 159.8 117.5 218.3

63 141.3 82.8 153.8



#13

Acetone

Concen: 4.139 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV010845.D

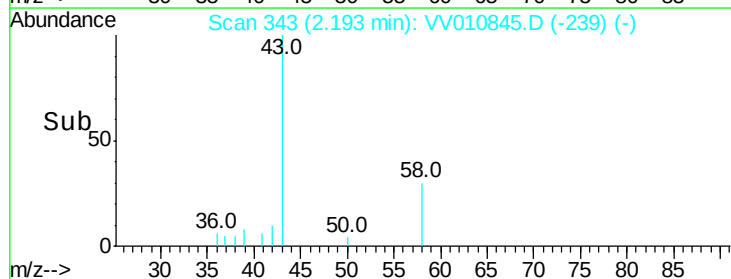
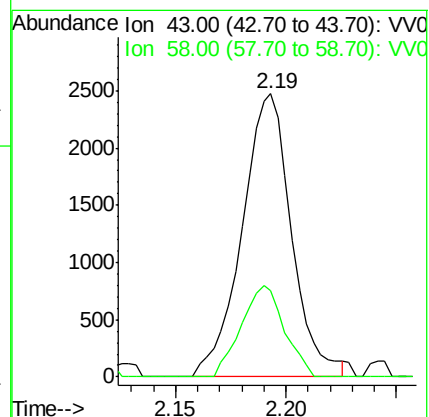
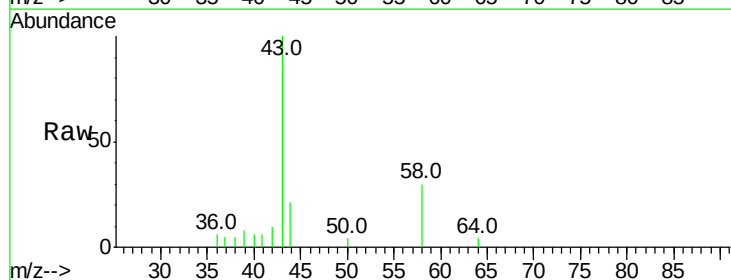
Acq: 13 May 2019 18:18

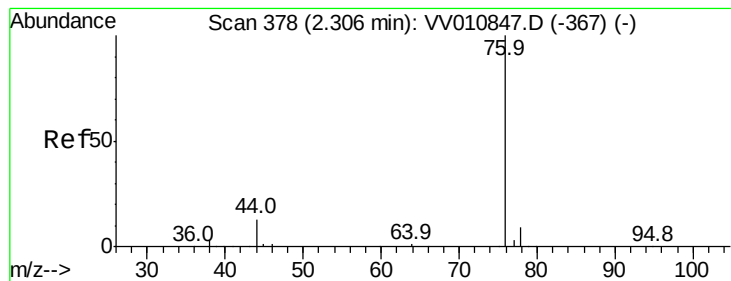
Tgt Ion: 43 Resp: 3850

Ion Ratio Lower Upper

43 100

58 28.1 0.0 69.2





#14

Carbon disulfide

Concen: 2.604 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV010845.D

Acq: 13 May 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

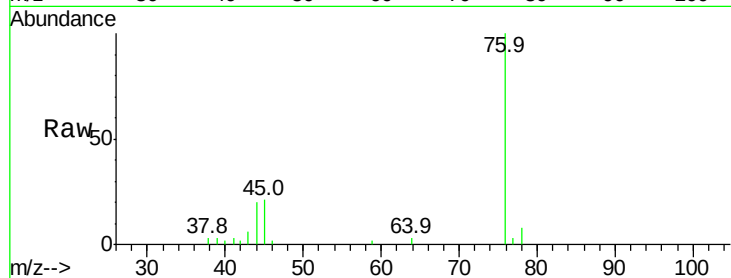
VSTD2.562

Tgt Ion: 76 Resp: 12983

Ion Ratio Lower Upper

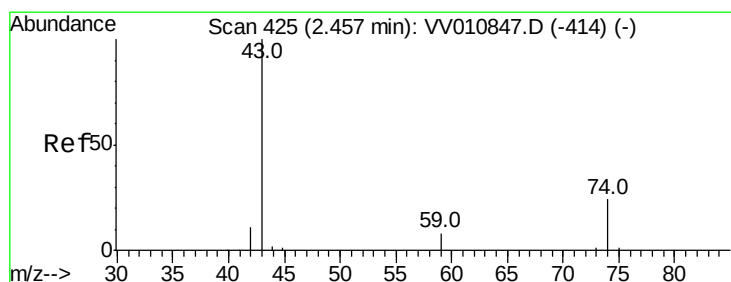
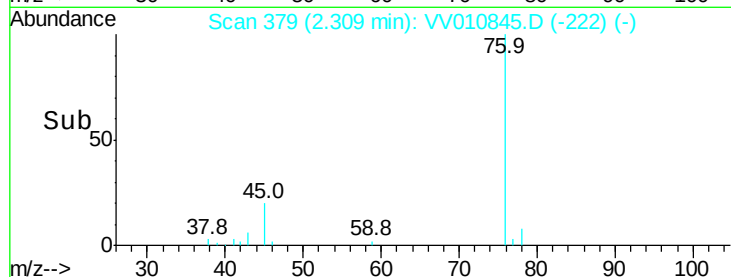
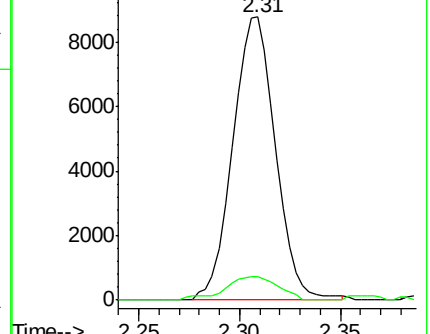
76 100

78 8.2 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0



#15

Methyl Acetate

Concen: 2.918 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV010845.D

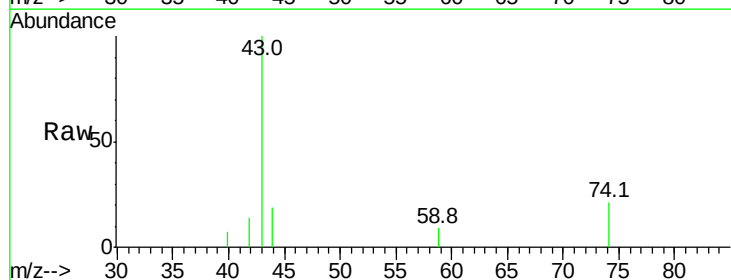
Acq: 13 May 2019 18:18

Tgt Ion: 43 Resp: 3242

Ion Ratio Lower Upper

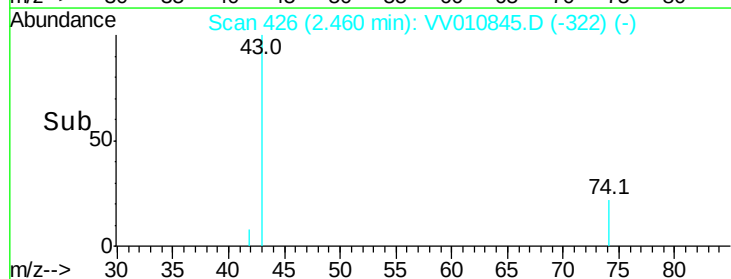
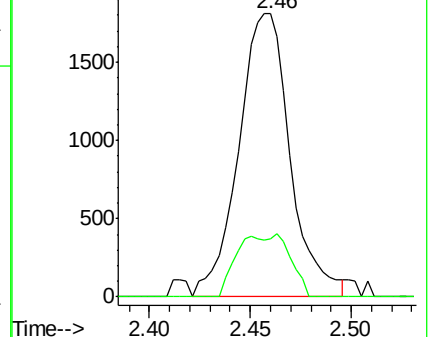
43 100

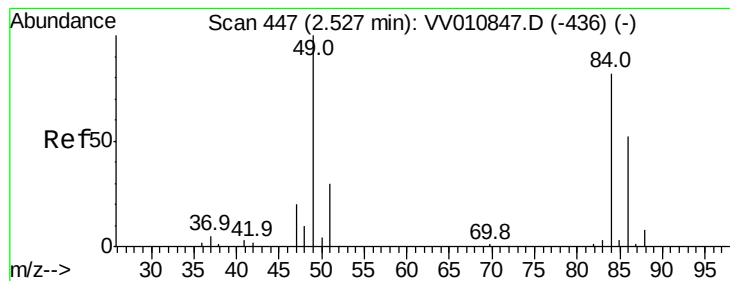
74 12.6 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0





#16

Methylene chloride

Concen: 3.265 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV010845.D

Acq: 13 May 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.562

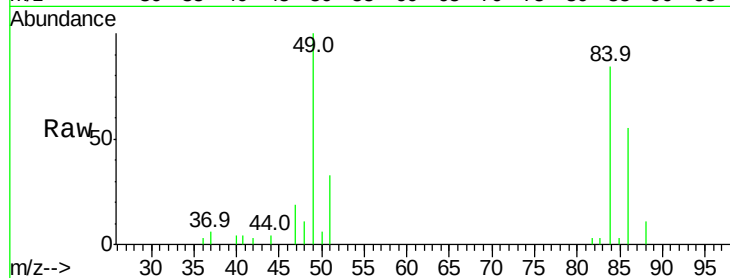
Tgt Ion: 84 Resp: 6506

Ion Ratio Lower Upper

84 100

49 119.7 85.8 159.3

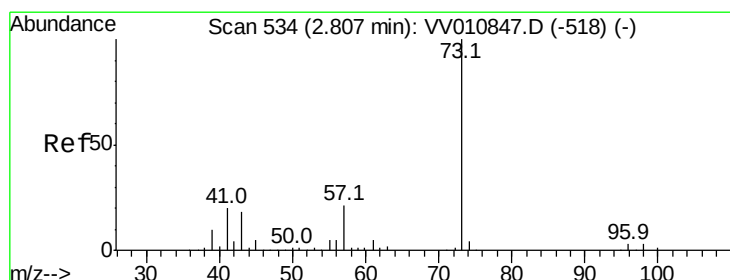
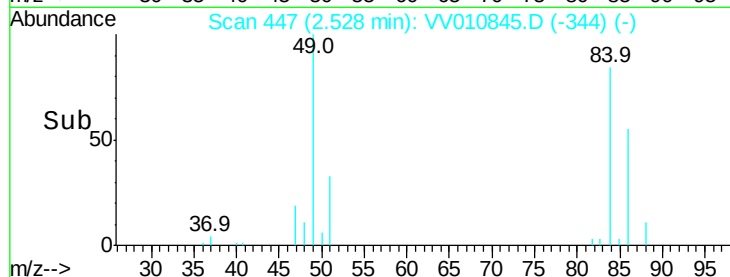
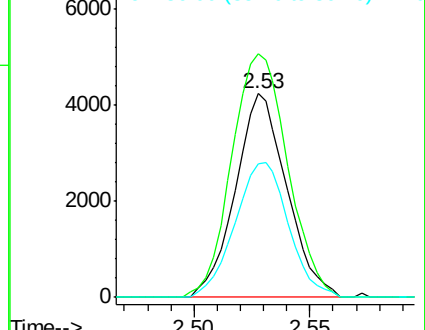
86 65.8 45.0 83.6



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0



#17

Methyl tert-butyl Ether

Concen: 2.379 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV010845.D

Acq: 13 May 2019 18:18

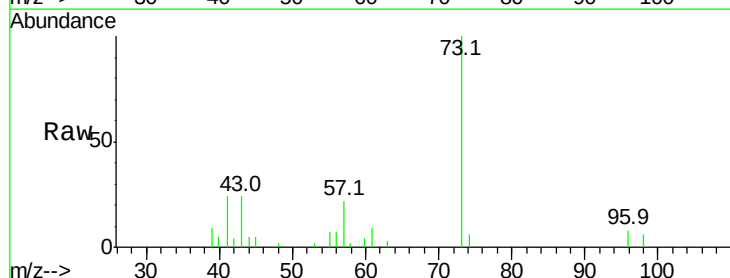
Tgt Ion: 73 Resp: 12086

Ion Ratio Lower Upper

73 100

43 23.0 15.3 22.9#

57 22.9 17.5 26.3



Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

