

Data File : VV010922.D
Acq On : 16 May 2019 04:16
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

Quant Time: May 16 08:15:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Thu May 16 08:09:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	147877	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	151545	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	69798	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	40260	21.37	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.48%
7) Chloroethane-d5	1.55	69	29099	23.70	ug/L	-0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.80%
10) 1,1-Dichloroethene-d2	2.11	63	74838	20.99	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	83.96%
20) 2-Butanone-d5	3.93	46	32332	54.55	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	109.10%
24) Chloroform-d	4.39	84	93915	22.00	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	88.00%
26) 1,2-Dichloroethane-d4	5.07	65	58576	24.13	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.52%
29) Benzene-d6	5.09	84	203959	24.32	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.28%
33) 1,2-Dichloropropane-d6	6.11	67	64602	24.14	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.56%
37) Toluene-d8	7.36	98	190456	23.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.52%
38) trans-1,3-Dichloropropene-	7.66	79	26163	22.41	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.64%
39) 2-Hexanone-d5	8.13	63	21093	41.60	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	83.20%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	63203	25.46	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.84%
61) 1,2-Dichlorobenzene-d4	11.67	152	67009	22.98	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.92%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.13	85	37220	22.687	ug/L	100
3) Chloromethane	1.24	50	43690	22.236	ug/L	99
5) Vinyl chloride	1.31	62	46428	21.947	ug/L	100
6) Bromomethane	1.50	94	10001	20.369	ug/L	96
8) Chloroethane	1.57	64	25621	23.418	ug/L	97
9) Trichlorofluoromethane	1.75	101	66967	22.115	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.12	101	40882	22.383	ug/L	97
12) 1,1-Dichloroethene	2.12	96	36631	21.496	ug/L	90
13) Acetone	2.18	43	23011	38.114	ug/L	97
14) Carbon disulfide	2.30	76	111666	21.755	ug/L	99
15) Methyl Acetate	2.45	43	28376	22.566	ug/L	97
16) Methylene chloride	2.52	84	56611	23.722	ug/L	100
17) Methyl tert-butyl Ether	2.80	73	137339	24.683	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	44434	21.889	ug/L	99
19) 1,1-Dichloroethane	3.22	63	92813	23.617	ug/L	99
21) 2-Butanone	4.01	43	39665	50.897	ug/L	96
22) cis-1,2-Dichloroethene	3.95	96	55797	23.488	ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	27350	24.716	ug/L	94
25) Chloroform	4.42	83	102914	24.140	ug/L	100
27) 1,2-Dichloroethane	5.17	62	69723	23.440	ug/L	99
30) Cyclohexane	4.72	56	61269	21.029	ug/L	96
31) 1,1,1-Trichloroethane	4.65	97	75052	22.802	ug/L	98
32) Carbon tetrachloride	4.87	117	63943	22.765	ug/L	99
34) Benzene	5.14	78	218265	24.711	ug/L	100
35) Trichloroethene	5.95	95	56115	24.512	ug/L	99
36) Methylcyclohexane	6.17	83	72933	22.894	ug/L	98
40) 1,2-Dichloropropane	6.22	63	58968	24.511	ug/L	100
41) Bromodichloromethane	6.55	83	74103	24.021	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	83592	23.817	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	89035	52.405	ug/L	96
44) Toluene	7.43	91	242497	24.698	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	72870	24.566	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	50682	26.158	ug/L	97
47) Tetrachloroethene	8.02	164	40562	23.979	ug/L	99
49) 2-Hexanone	8.18	43	59405	47.342	ug/L	97
50) Dibromochloromethane	8.29	129	57061	26.477	ug/L	99
51) 1,2-Dibromoethane	8.39	107	47551	26.051	ug/L	95
52) Chlorobenzene	8.92	112	162507	24.303	ug/L	100
53) Ethylbenzene	9.05	91	258654	24.047	ug/L	100
54) m,p-Xylene	9.18	106	99453	23.467	ug/L	99
55) o-xylene	9.59	106	99862	23.983	ug/L	97
56) Styrene	9.60	104	175714	24.611	ug/L	99
57) Isopropylbenzene	9.97	105	248338	23.827	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	65415	25.565	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	48125	25.958	ug/L	100
62) Bromoform	9.77	173	31050	28.499	ug/L #	97
63) 1,3-Dichlorobenzene	11.23	146	112988	23.429	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	117844	23.588	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	116027	24.115	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	9779	27.139	ug/L	86
67) 1,3,5-Trichlorobenzene	12.69	180	78572	22.356	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	63253	22.288	ug/L	100
69) Naphthalene	13.55	128	139135	23.404	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	62930	23.299	ug/L	99

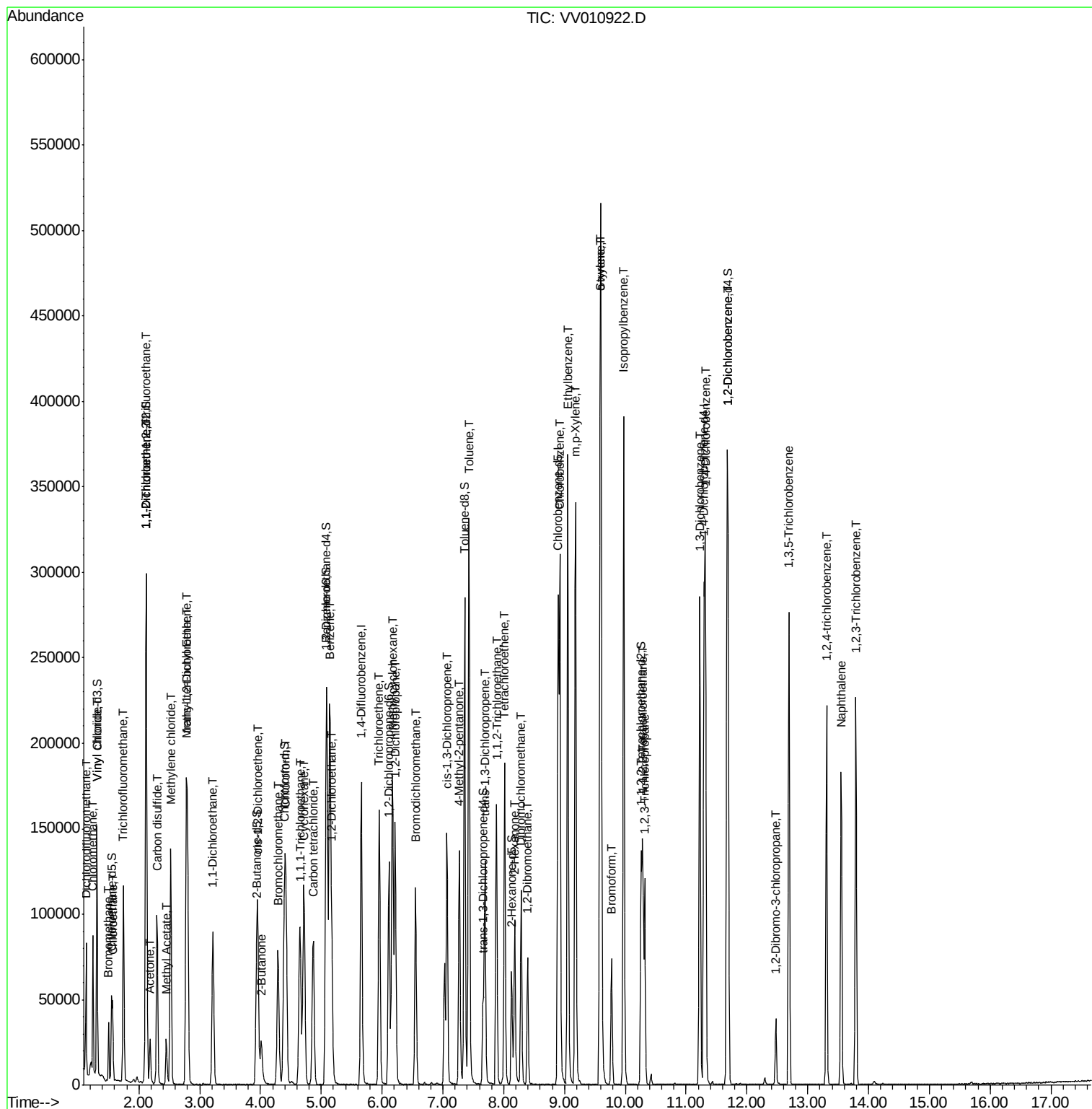
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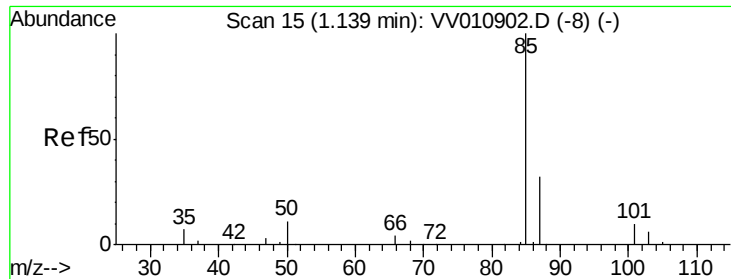
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#2

Dichlorodifluoromethane

Concen: 22.687 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.01 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

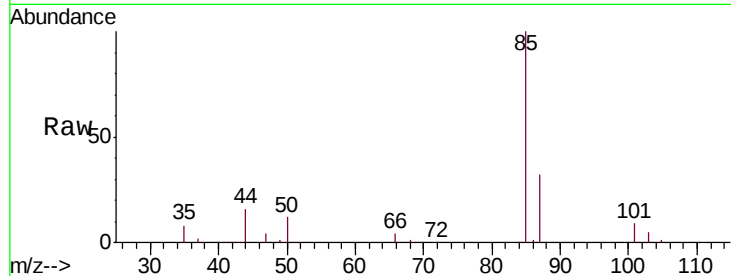
VSTD02562

Tgt Ion: 85 Resp: 37220

Ion Ratio Lower Upper

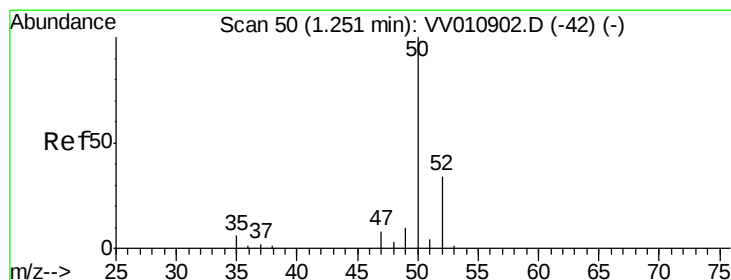
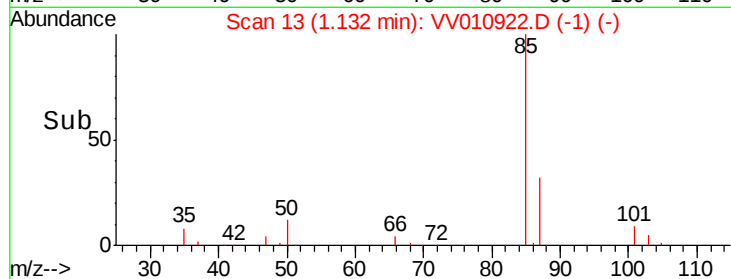
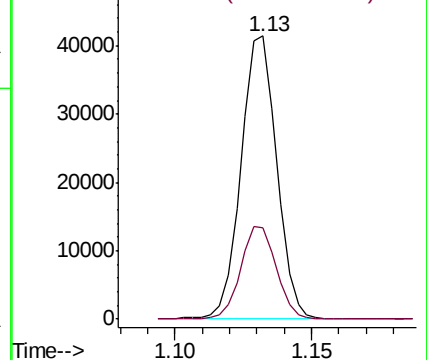
85 100

87 33.0 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: 22.236 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.01 min

Lab File: VV010922.D

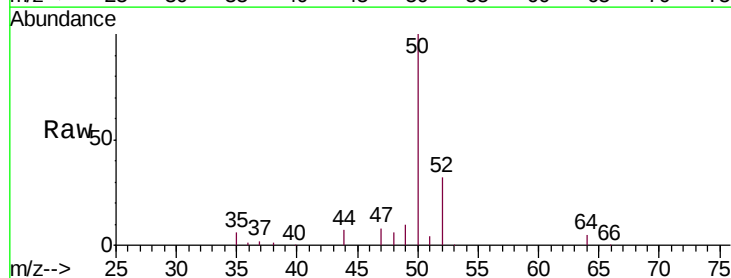
Acq: 16 May 2019 04:16

Tgt Ion: 50 Resp: 43690

Ion Ratio Lower Upper

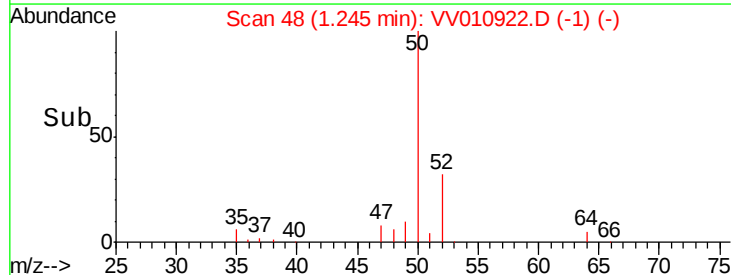
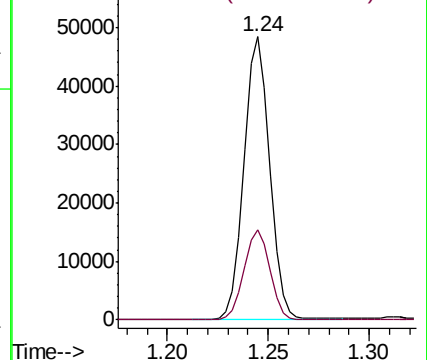
50 100

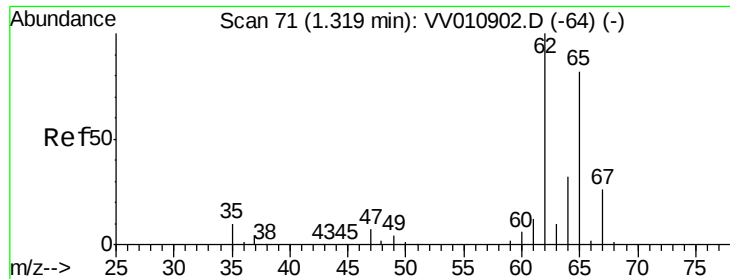
52 31.7 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 21.947 ug/L

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

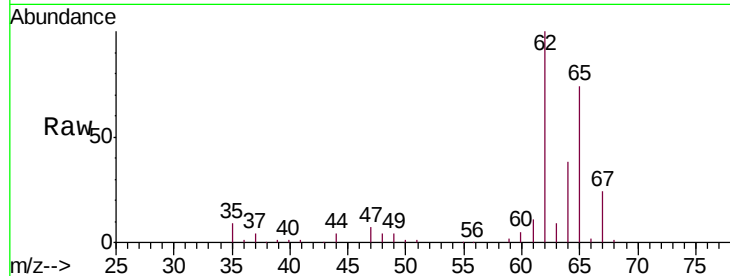
VSTD02562

Tgt Ion: 62 Resp: 46428

Ion Ratio Lower Upper

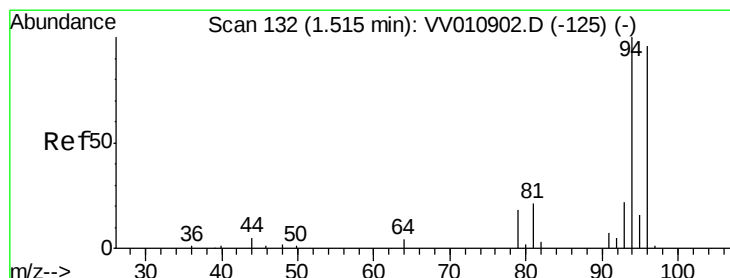
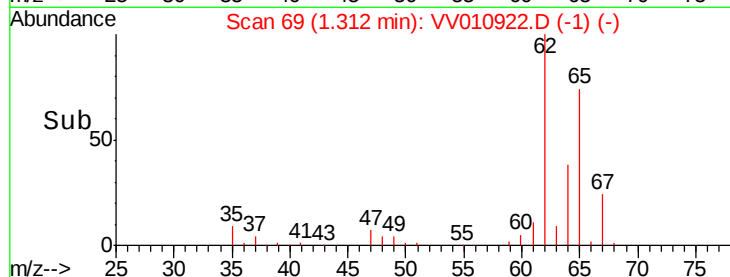
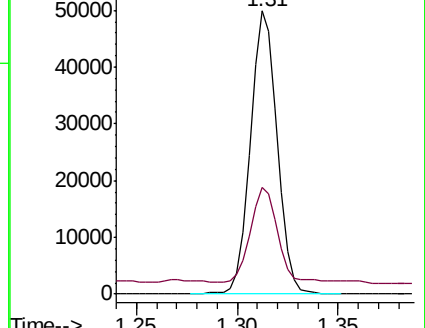
62 100

64 37.5 26.1 48.5



Abundance Ion 62.00 (61.70 to 62.70): VV010902.D (-64) (-)

Ion 64.00 (63.70 to 64.70): VV010902.D (-64) (-)



#6

Bromomethane

Concen: 20.369 ug/L

RT: 1.50 min Scan# 128

Delta R.T. -0.01 min

Lab File: VV010922.D

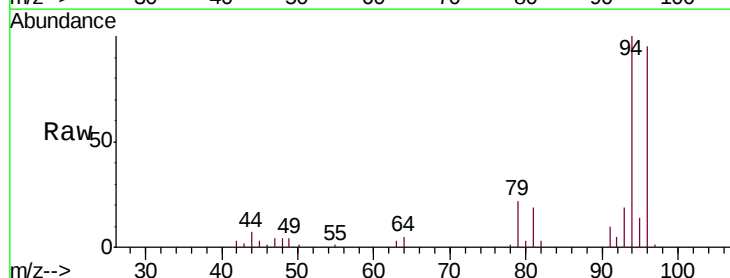
Acq: 16 May 2019 04:16

Tgt Ion: 94 Resp: 10001

Ion Ratio Lower Upper

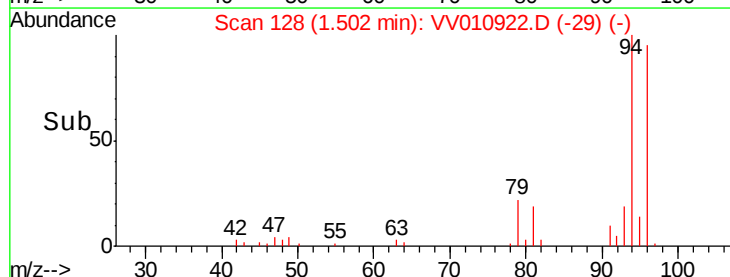
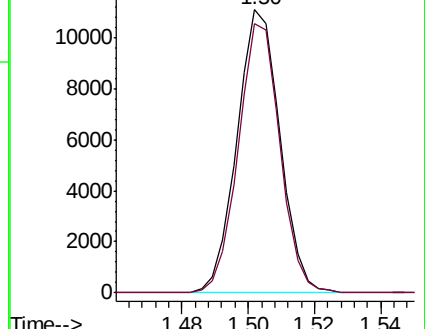
94 100

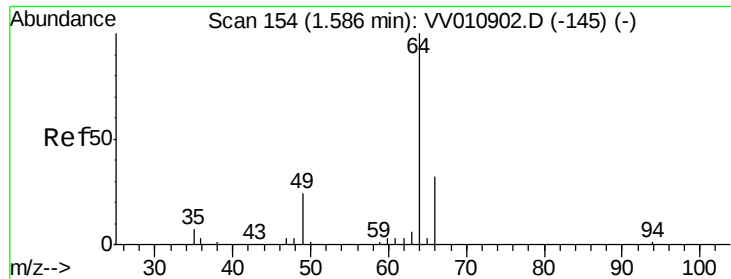
96 92.1 9.6 181.6



Abundance Ion 94.00 (93.70 to 94.70): VV010902.D (-125) (-)

Ion 96.00 (95.70 to 96.70): VV010902.D (-125) (-)





#8

Chloroethane

Concen: 23.418 ug/L

RT: 1.57 min Scan# 149

Delta R.T. -0.02 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

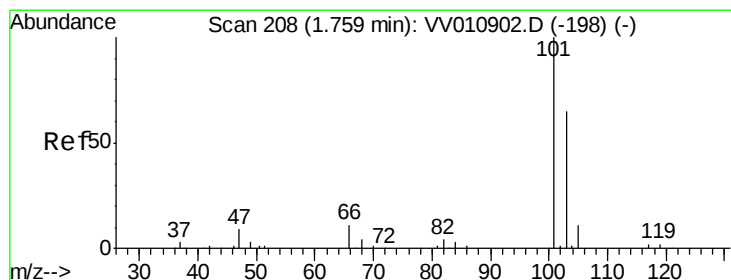
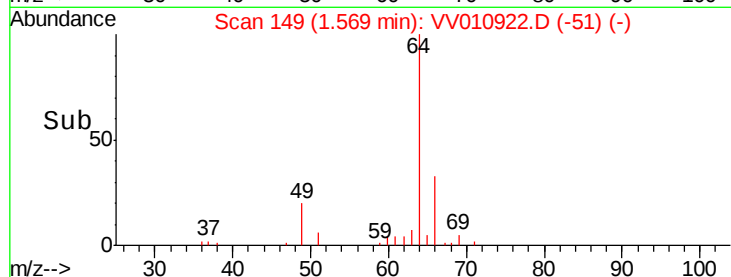
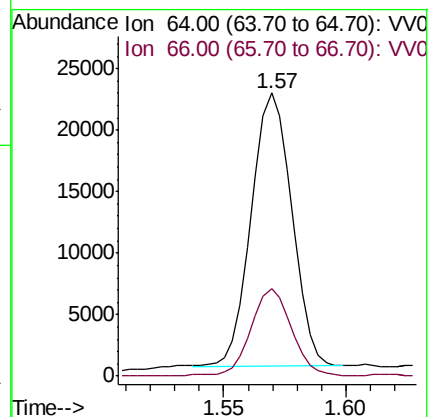
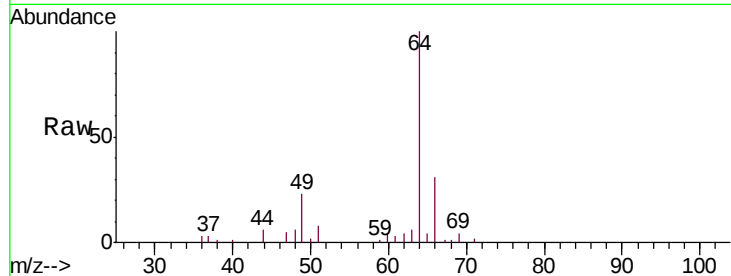
VSTD02562

Tgt Ion: 64 Resp: 25621

Ion Ratio Lower Upper

64 100

66 30.7 22.5 41.9



#9

Trichlorofluoromethane

Concen: 22.115 ug/L

RT: 1.75 min Scan# 204

Delta R.T. -0.01 min

Lab File: VV010922.D

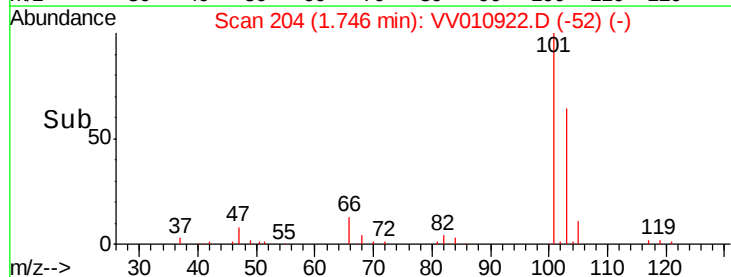
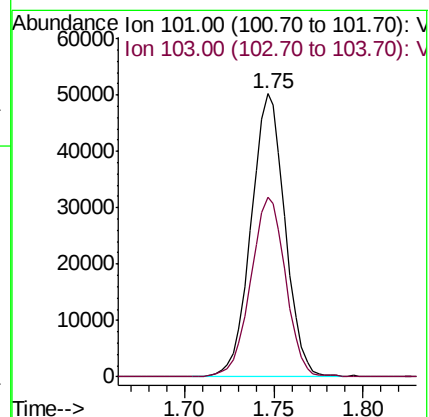
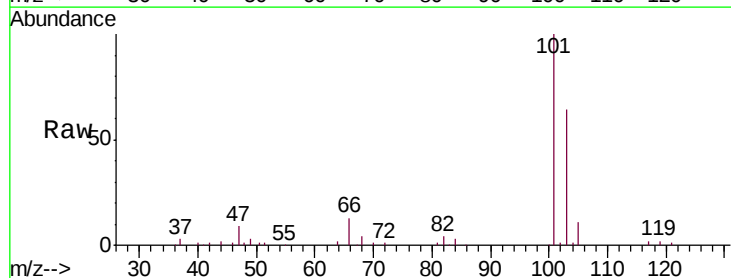
Acq: 16 May 2019 04:16

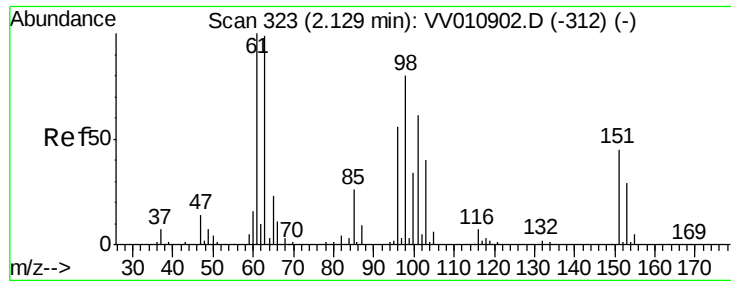
Tgt Ion: 101 Resp: 66967

Ion Ratio Lower Upper

101 100

103 65.4 45.4 84.4





#11

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

Concen: 22.383 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

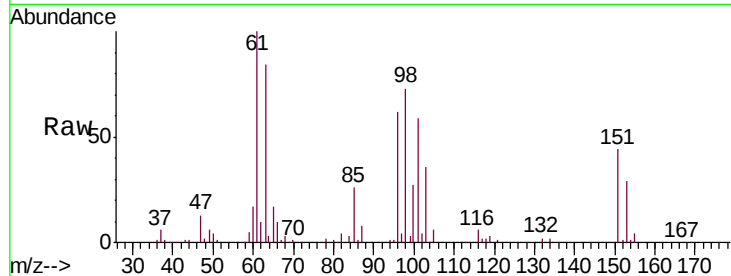
Tgt Ion:101 Resp: 40882

Ion Ratio Lower Upper

101 100

85 43.7 35.7 53.5

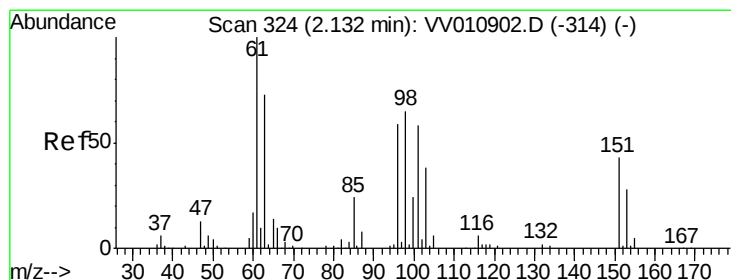
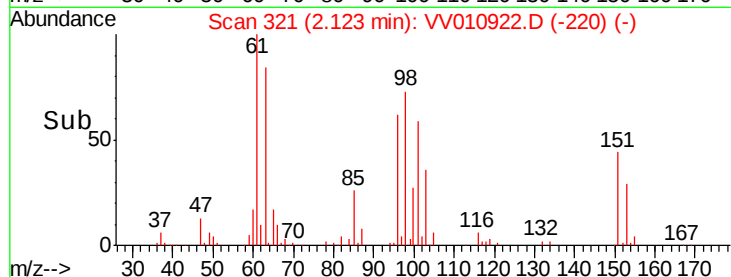
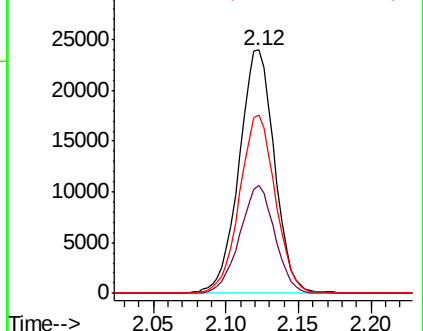
151 74.1 62.2 93.2



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: 21.496 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

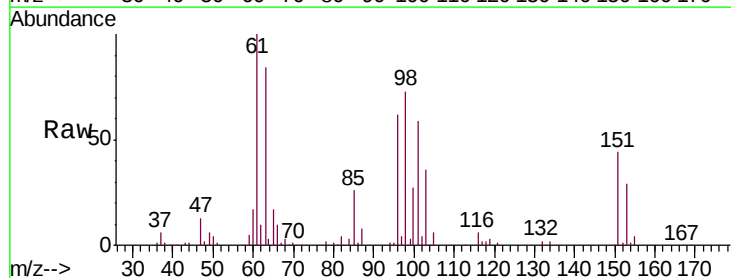
Tgt Ion: 96 Resp: 36631

Ion Ratio Lower Upper

96 100

61 160.2 117.5 218.3

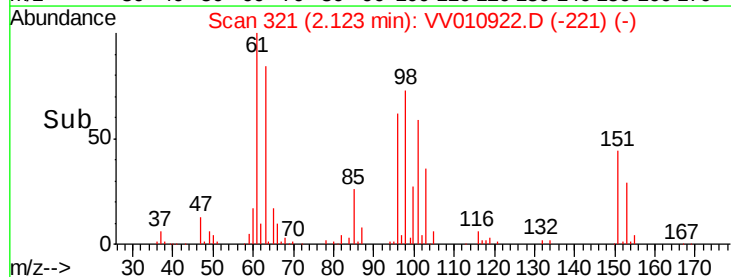
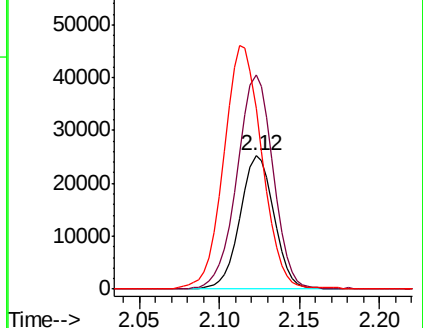
63 135.2 82.8 153.8

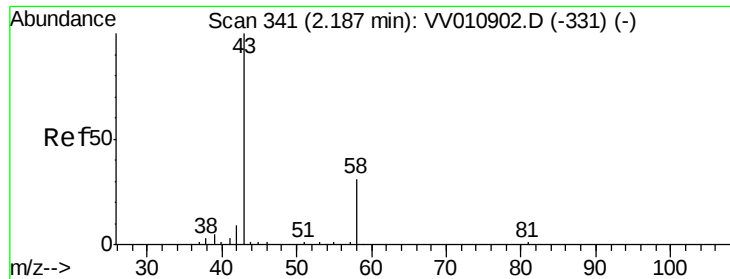


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 38.114 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

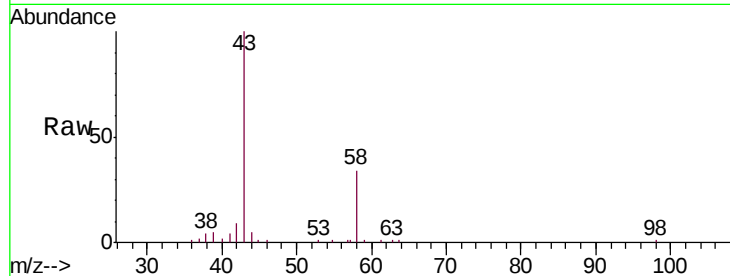
VSTD02562

Tgt Ion: 43 Resp: 23011

Ion Ratio Lower Upper

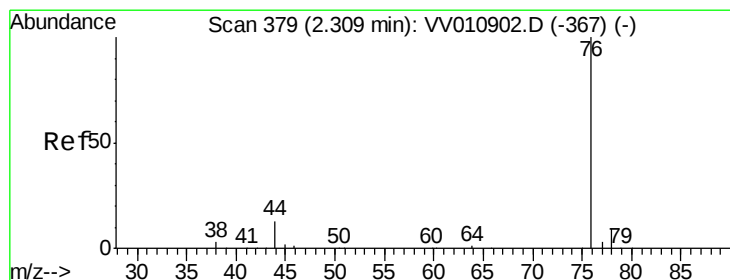
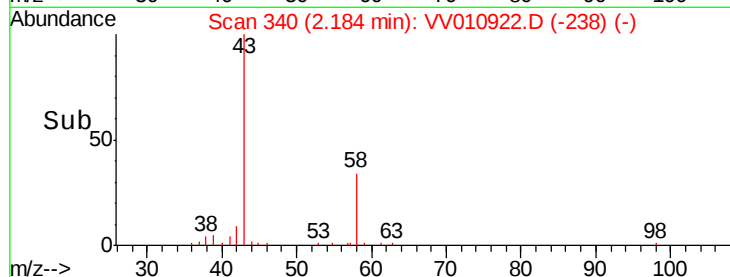
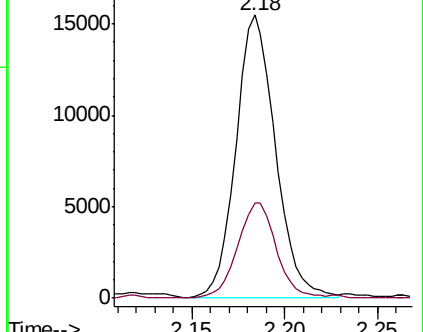
43 100

58 32.9 0.0 69.2



Abundance Ion 43.00 (42.70 to 43.70): VV010922.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV010922.D (-331) (-)



#14

Carbon disulfide

Concen: 21.755 ug/L

RT: 2.30 min Scan# 376

Delta R.T. -0.01 min

Lab File: VV010922.D

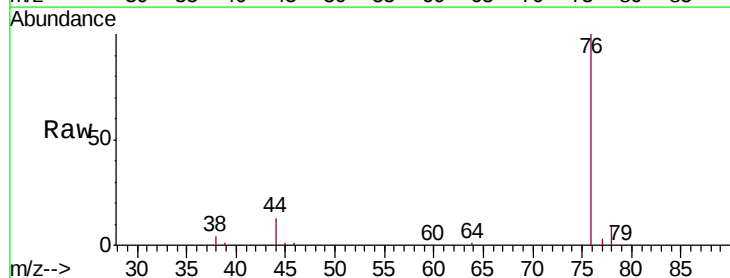
Acq: 16 May 2019 04:16

Tgt Ion: 76 Resp: 111666

Ion Ratio Lower Upper

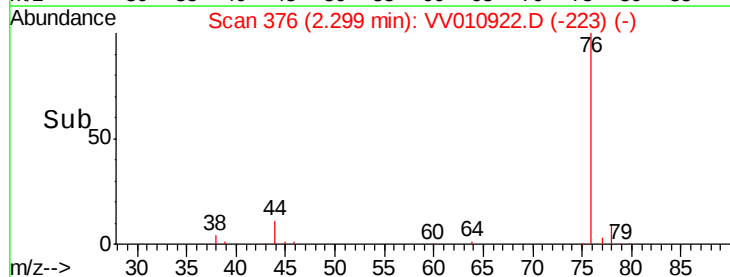
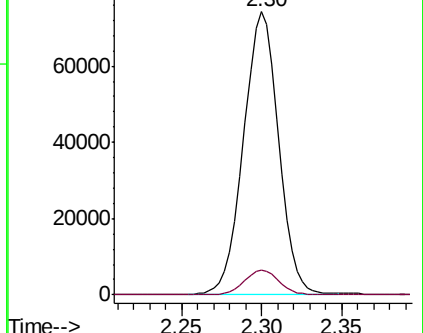
76 100

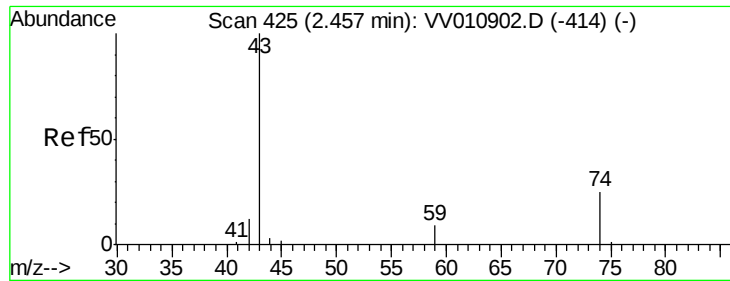
78 8.8 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV010922.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV010922.D (-367) (-)





#15

Methyl Acetate

Concen: 22.566 ug/L

RT: 2.45 min Scan# 423

Delta R.T. -0.01 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

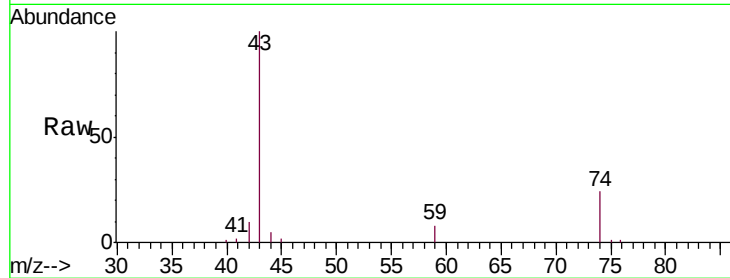
VSTD02562

Tgt Ion: 43 Resp: 28376

Ion Ratio Lower Upper

43 100

74 24.9 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VV010922.D (-414) (-)

Ion 74.00 (73.70 to 74.70): VV010922.D (-414) (-)

20000

15000

10000

5000

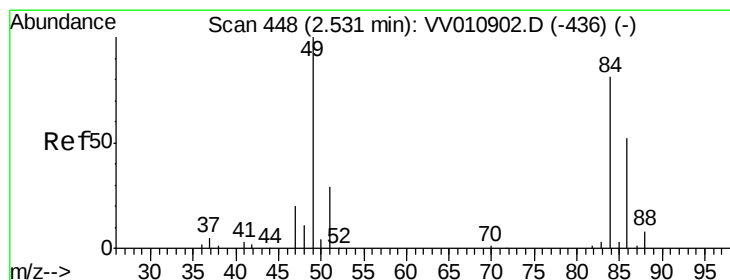
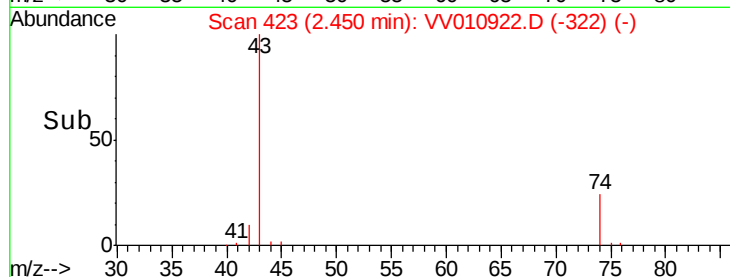
0

2.40

2.45

2.50

Time-->



#16

Methylene chloride

Concen: 23.722 ug/L

RT: 2.52 min Scan# 446

Delta R.T. -0.01 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

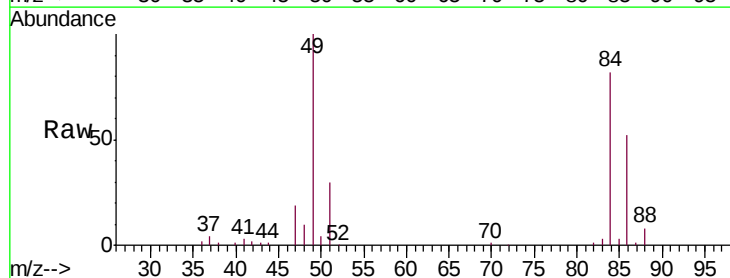
Tgt Ion: 84 Resp: 56611

Ion Ratio Lower Upper

84 100

49 122.7 85.8 159.3

86 64.1 45.0 83.6



Abundance Ion 84.00 (83.70 to 84.70): VV010922.D (-436) (-)

Ion 49.00 (48.70 to 49.70): VV010922.D (-436) (-)

Ion 86.00 (85.70 to 86.70): VV010922.D (-436) (-)

50000

40000

30000

20000

10000

0

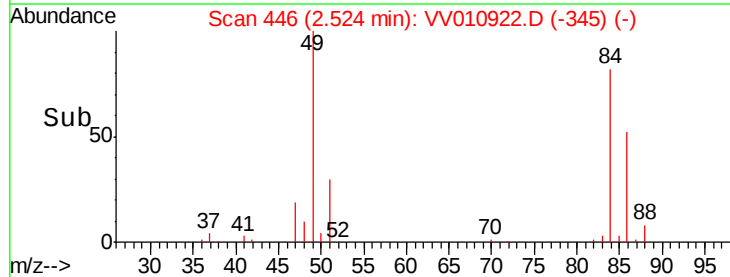
2.45

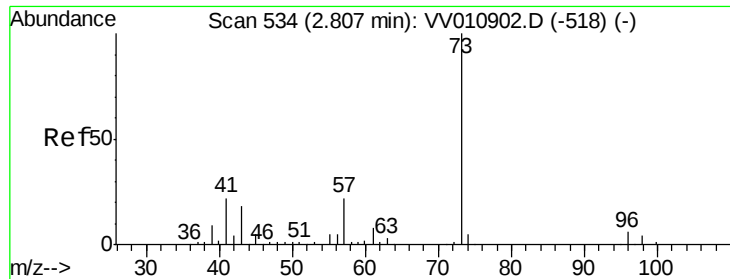
2.50

2.55

2.60

Time-->

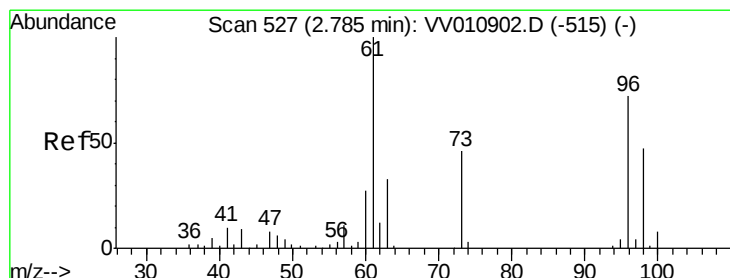
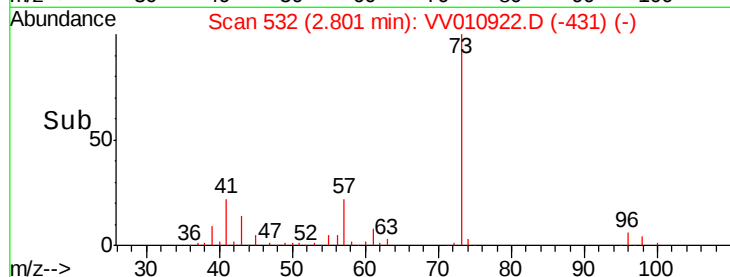
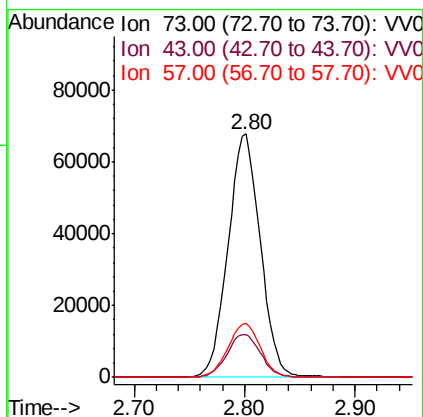
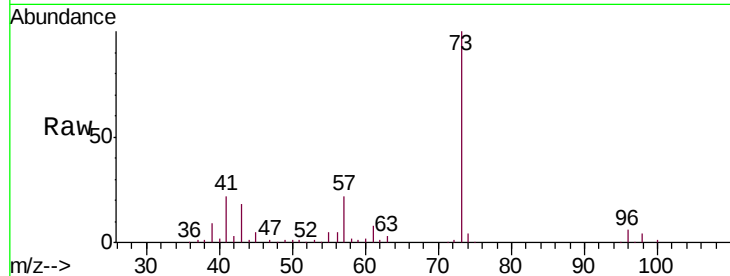




#17
Methyl tert-butyl Ether
Concen: 24.683 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.01 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

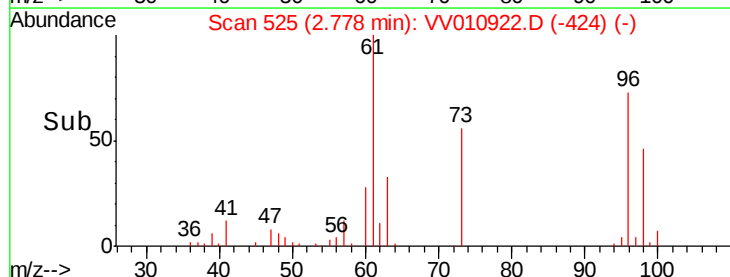
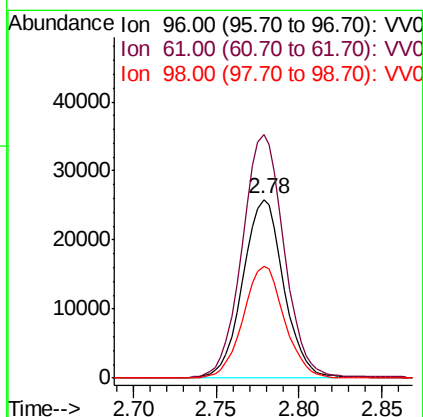
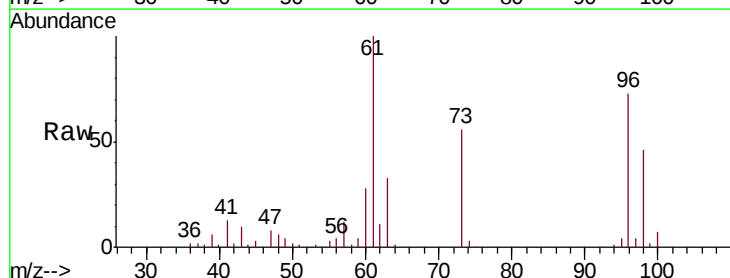
Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

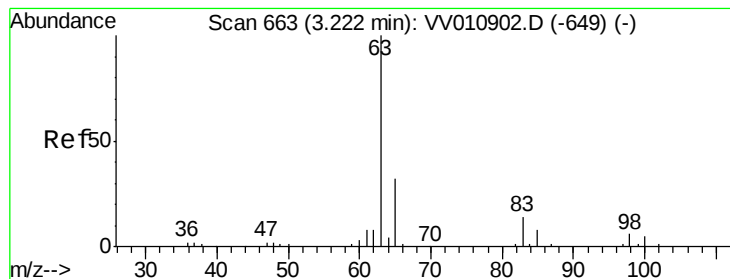
Tgt Ion: 73 Resp: 137339
Ion Ratio Lower Upper
73 100
43 18.5 15.3 22.9
57 22.1 17.5 26.3



#18
trans-1,2-Dichloroethene
Concen: 21.889 ug/L
RT: 2.78 min Scan# 525
Delta R.T. -0.01 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

Tgt Ion: 96 Resp: 44434
Ion Ratio Lower Upper
96 100
61 136.4 95.0 176.4
98 62.9 43.3 80.3





#19

1,1-Dichloroethane

Concen: 23.617 ug/L

RT: 3.22 min Scan# 661

Delta R.T. -0.01 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

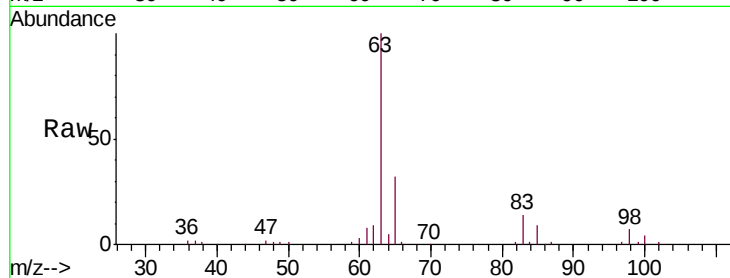
Tgt Ion: 63 Resp: 92813

Ion Ratio Lower Upper

63 100

65 32.2 22.1 41.1

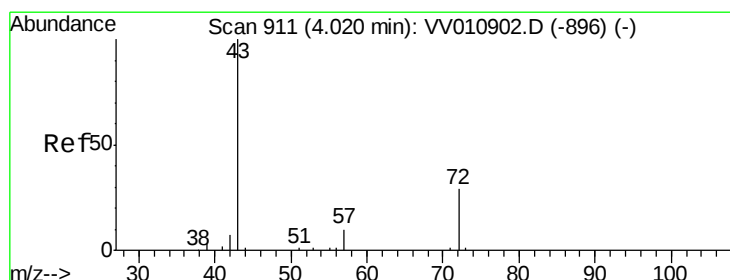
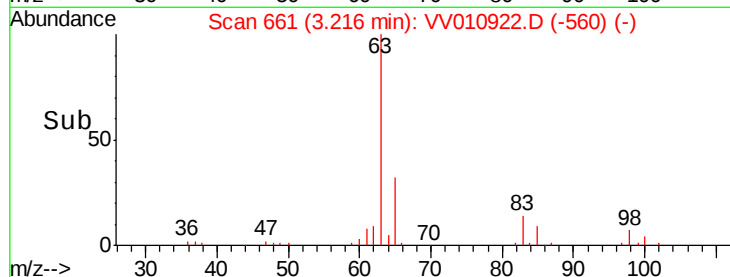
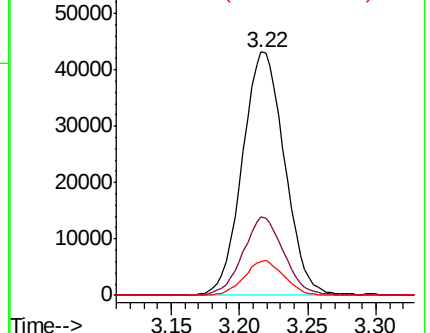
83 13.9 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VV010922.D (-649) (-)

Ion 65.00 (64.70 to 65.70): VV010922.D (-649) (-)

Ion 83.00 (82.70 to 83.70): VV010922.D (-649) (-)



#21

2-Butanone

Concen: 50.897 ug/L

RT: 4.01 min Scan# 909

Delta R.T. -0.01 min

Lab File: VV010922.D

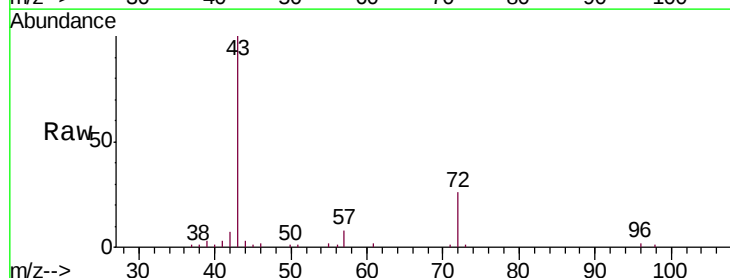
Acq: 16 May 2019 04:16

Tgt Ion: 43 Resp: 39665

Ion Ratio Lower Upper

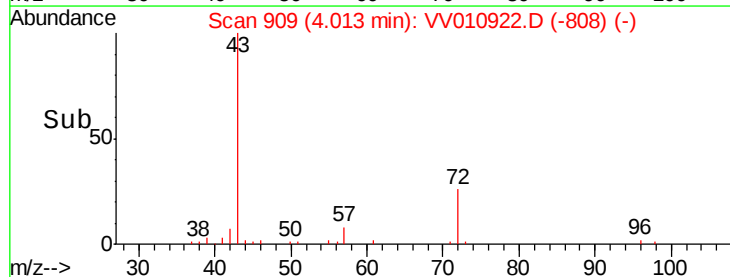
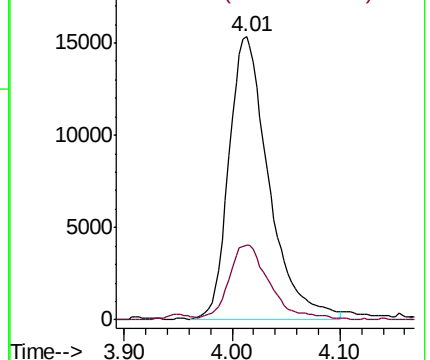
43 100

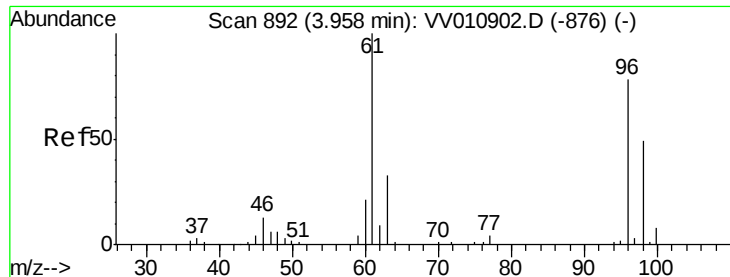
72 25.1 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VV010922.D (-808) (-)

Ion 72.00 (71.70 to 72.70): VV010922.D (-808) (-)



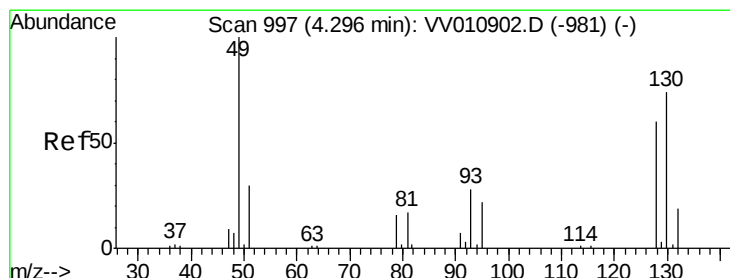
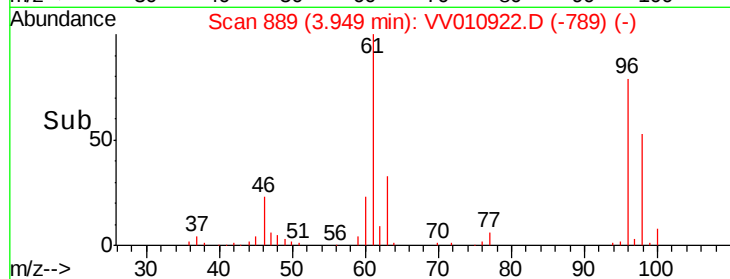
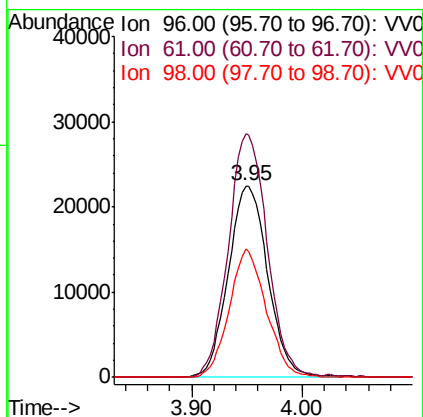
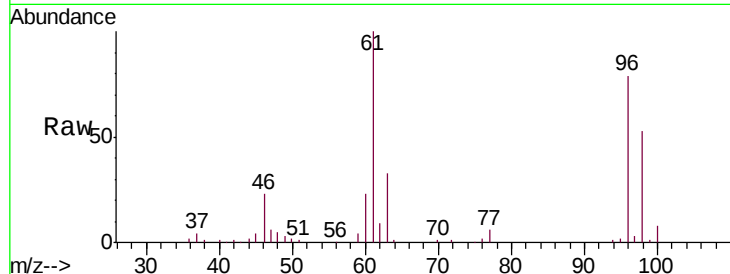


#22

cis-1,2-Dichloroethene
 Concen: 23.488 ug/L
 RT: 3.95 min Scan# 889
 Delta R.T. -0.01 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

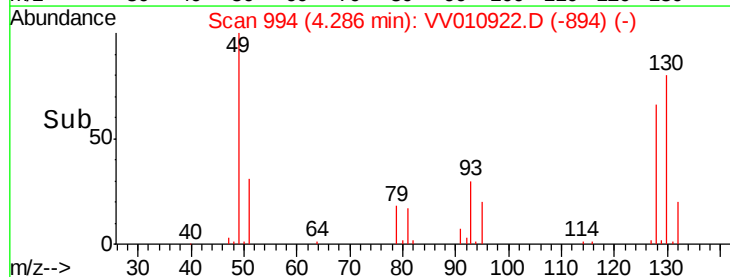
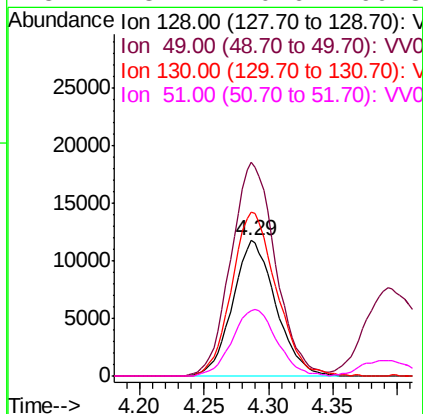
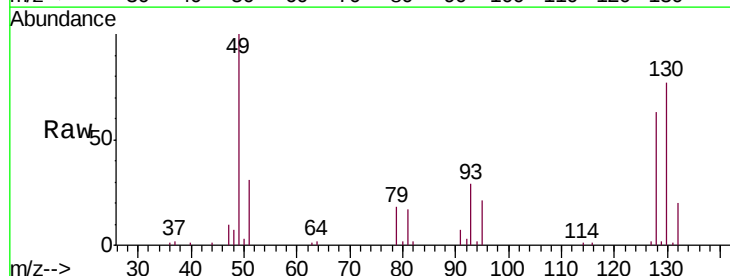
Tgt Ion: 96 Resp: 55797
 Ion Ratio Lower Upper
 96 100
 61 127.0 90.2 167.6
 98 67.0 44.2 82.0

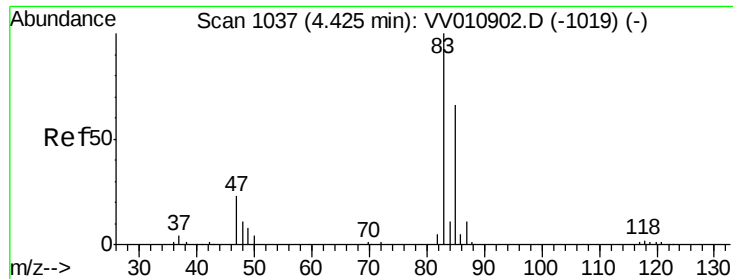


#23

Bromochloromethane
 Concen: 24.716 ug/L
 RT: 4.29 min Scan# 994
 Delta R.T. -0.01 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

Tgt Ion: 128 Resp: 27350
 Ion Ratio Lower Upper
 128 100
 49 158.1 117.8 218.8
 130 121.6 88.4 164.2
 51 48.4 40.6 60.8

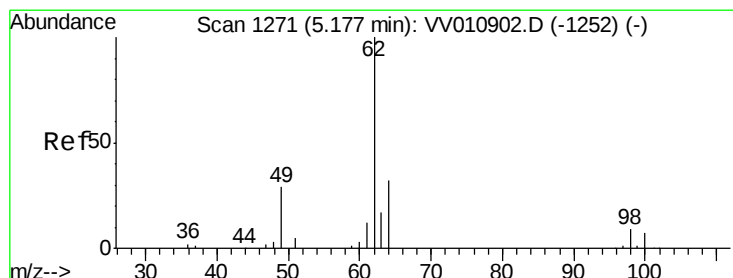
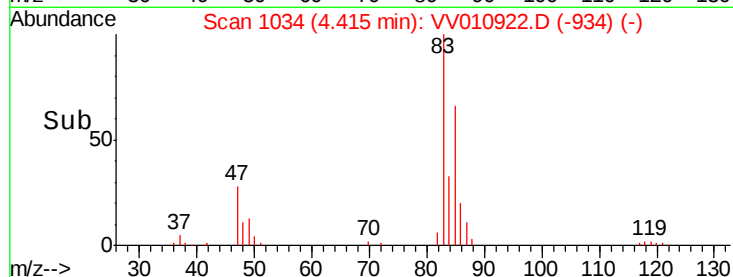
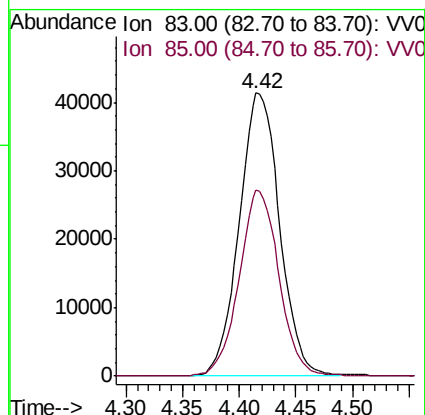
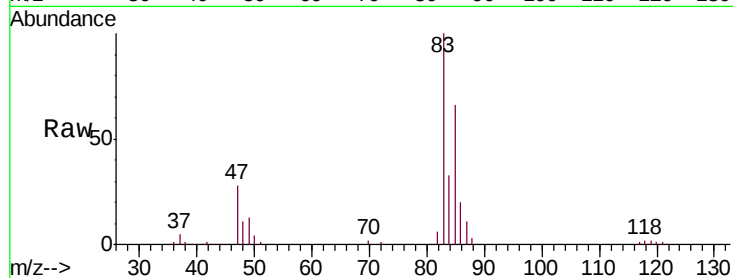




#25
Chloroform
Concen: 24.140 ug/L
RT: 4.42 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

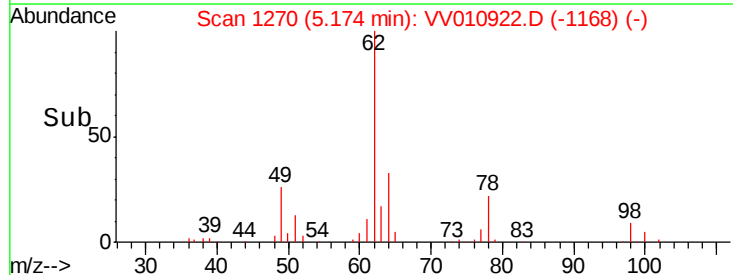
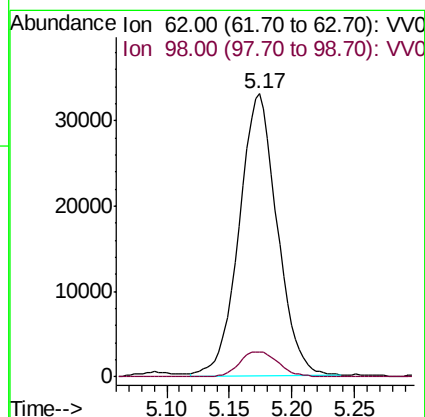
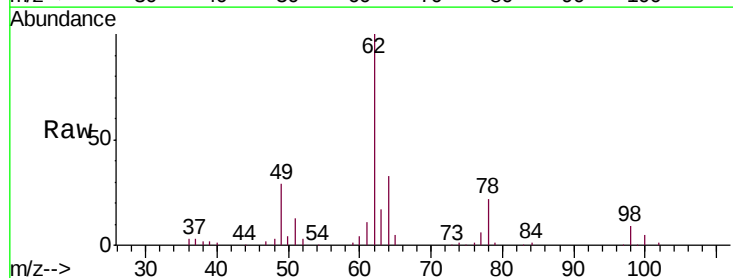
Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

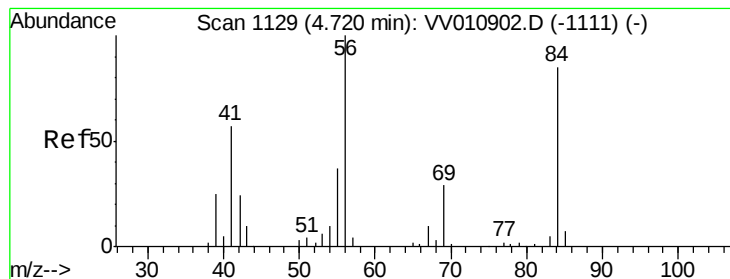
Tgt Ion: 83 Resp: 102914
Ion Ratio Lower Upper
83 100
85 64.7 45.3 84.1



#27
1,2-Dichloroethane
Concen: 23.440 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

Tgt Ion: 62 Resp: 69723
Ion Ratio Lower Upper
62 100
98 8.9 7.0 10.4





#30

Cyclohexane

Concen: 21.029 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

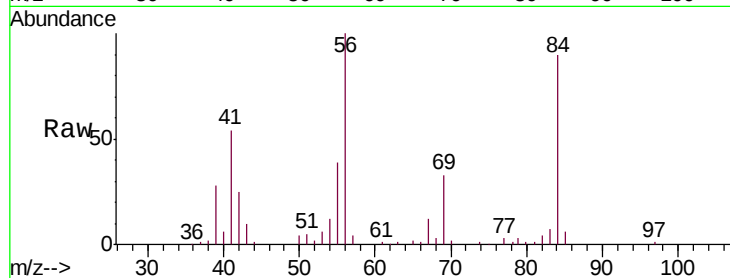
Tgt Ion: 56 Resp: 61269

Ion Ratio Lower Upper

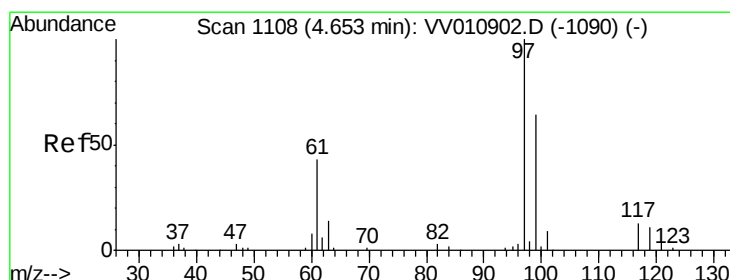
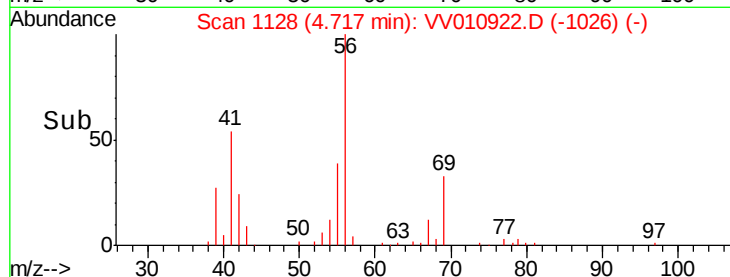
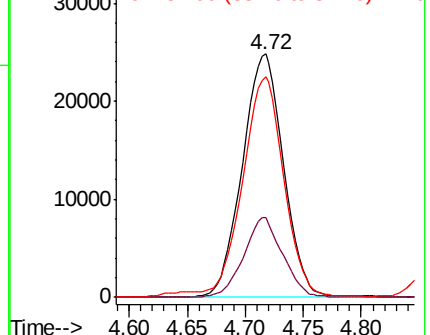
56 100

69 31.0 25.2 37.8

84 90.8 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: 22.802 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

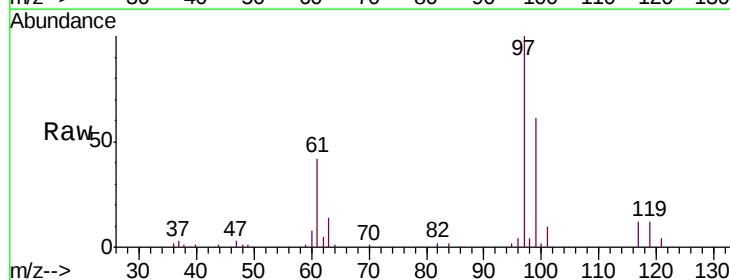
Tgt Ion: 97 Resp: 75052

Ion Ratio Lower Upper

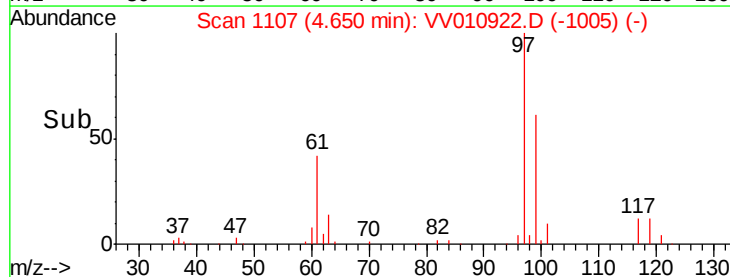
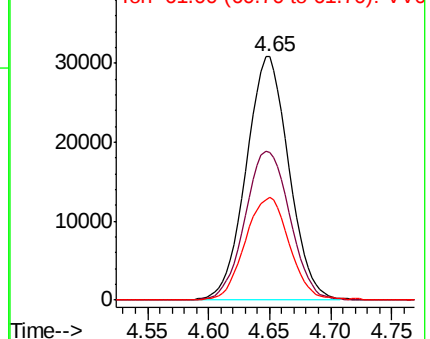
97 100

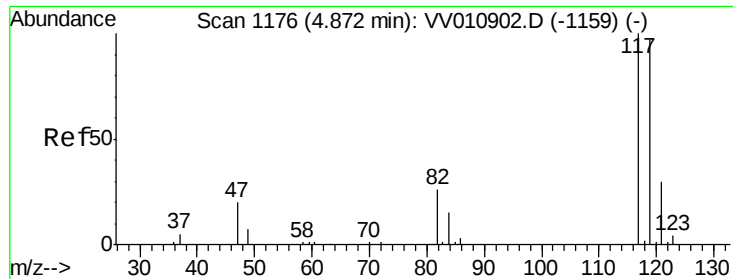
99 64.2 49.4 74.2

61 43.5 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: 22.765 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

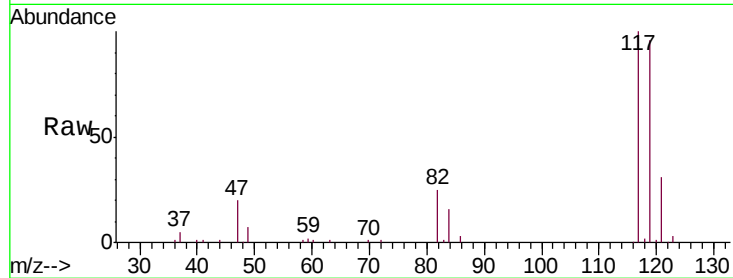
VSTD02562

Tgt Ion:117 Resp: 63943

Ion Ratio Lower Upper

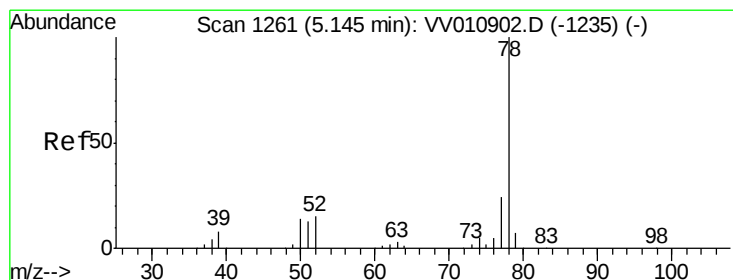
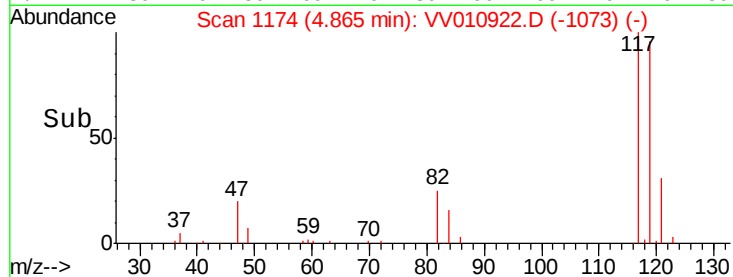
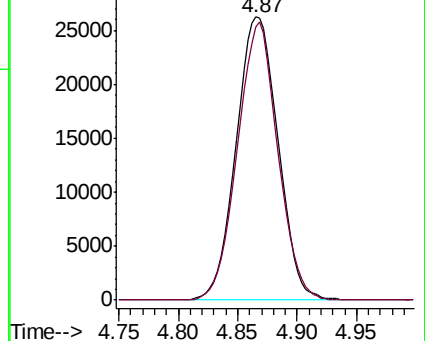
117 100

119 94.4 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.711 ug/L

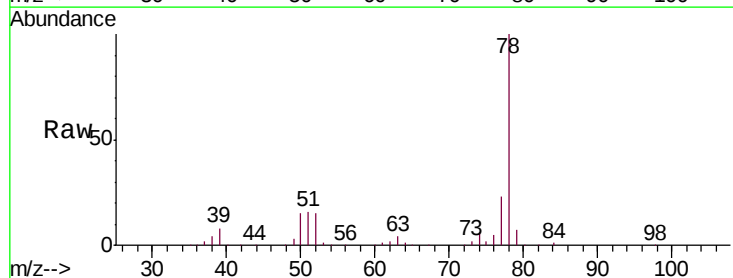
RT: 5.14 min Scan# 1259

Delta R.T. -0.01 min

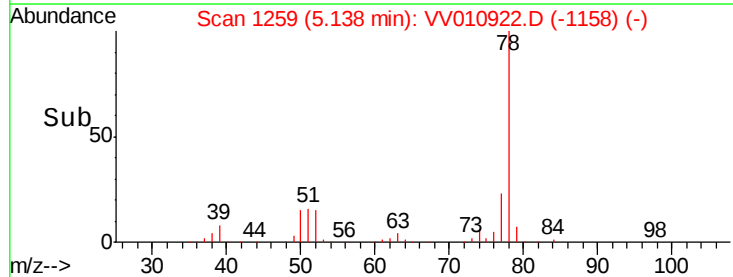
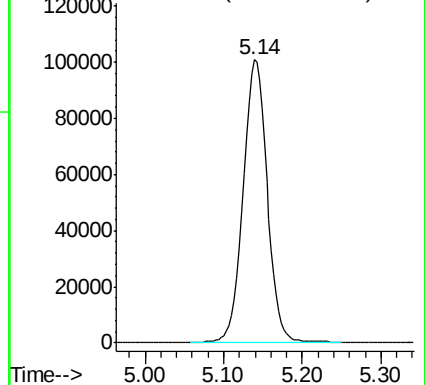
Lab File: VV010922.D

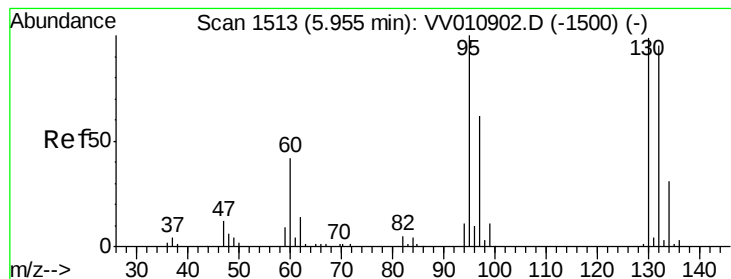
Acq: 16 May 2019 04:16

Tgt Ion: 78 Resp: 218265



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 24.512 ug/L

RT: 5.95 min Scan# 1512

Delta R.T. -0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

Tgt Ion: 95 Resp: 56115

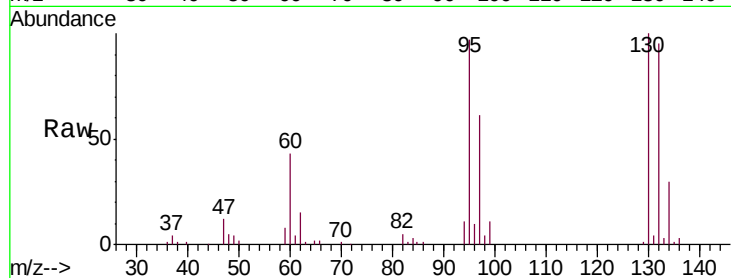
Ion Ratio Lower Upper

95 100

97 64.9 46.0 85.4

132 96.8 67.4 125.2

130 99.3 68.5 127.1

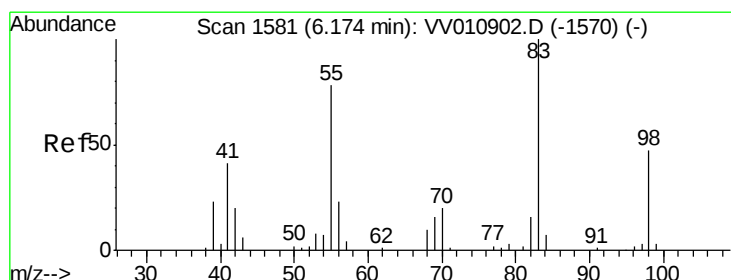
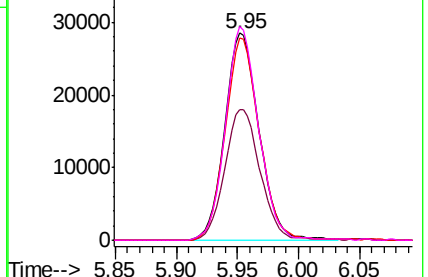
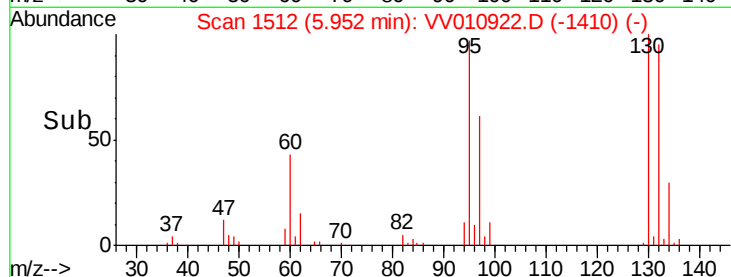


Abundance Ion 95.00 (94.70 to 95.70): VV010922.D (-1500) (-)

Ion 97.00 (96.70 to 97.70): VV010922.D (-1500) (-)

Ion 132.00 (131.70 to 132.70): VV010922.D (-1500) (-)

Ion 130.00 (129.70 to 130.70): VV010922.D (-1500) (-)



#36

Methylcyclohexane

Concen: 22.894 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

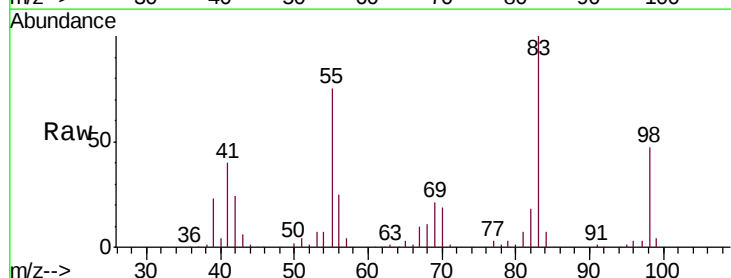
Tgt Ion: 83 Resp: 72933

Ion Ratio Lower Upper

83 100

55 77.5 61.0 91.4

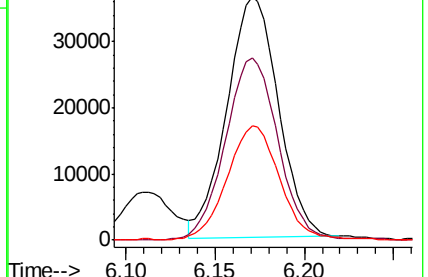
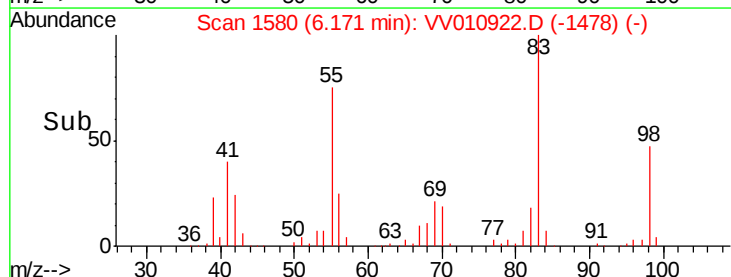
98 48.4 37.2 55.8

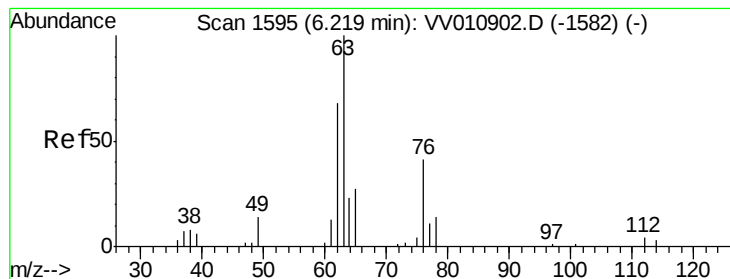


Abundance Ion 83.00 (82.70 to 83.70): VV010922.D (-1570) (-)

Ion 55.00 (54.70 to 55.70): VV010922.D (-1570) (-)

Ion 98.00 (97.70 to 98.70): VV010922.D (-1570) (-)





#40

1,2-Dichloropropane

Concen: 24.511 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

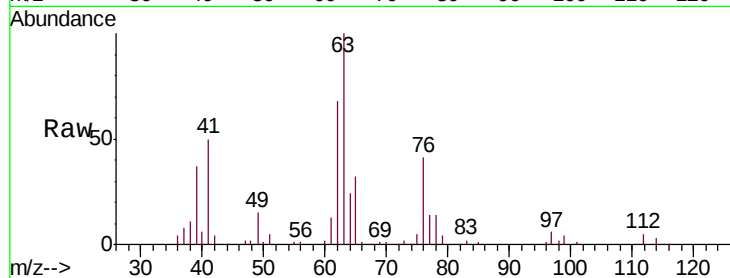
VSTD02562

Tgt Ion: 63 Resp: 58968

Ion Ratio Lower Upper

63 100

112 4.1 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VV010922.D (-1582) (-)

Ion 112.00 (111.70 to 112.70): VV010922.D (-1582) (-)

6.22

30000

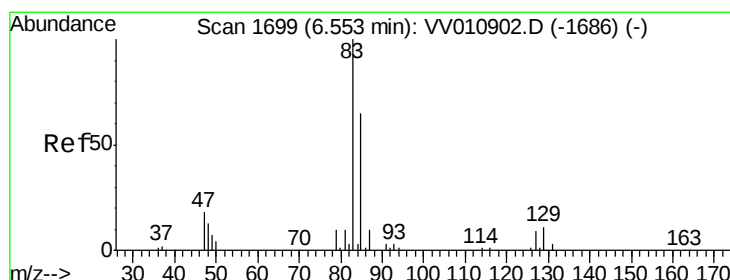
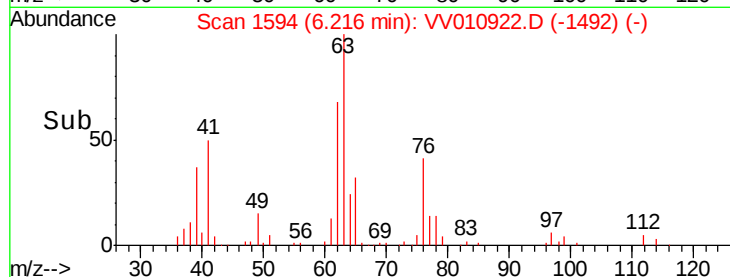
20000

10000

0

6.15 6.20 6.25 6.30

Time-->



#41

Bromodichloromethane

Concen: 24.021 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

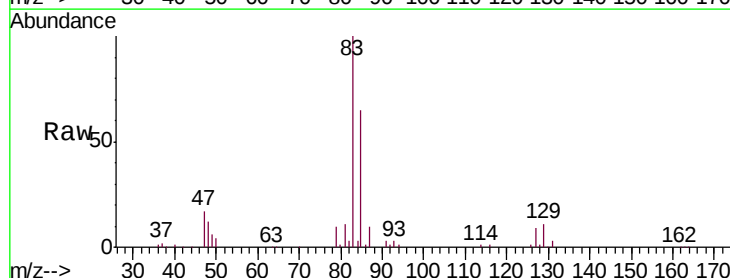
Tgt Ion: 83 Resp: 74103

Ion Ratio Lower Upper

83 100

85 64.6 45.3 84.1

127 9.2 7.4 11.2



Abundance Ion 83.00 (82.70 to 83.70): VV010922.D (-1686) (-)

Ion 85.00 (84.70 to 85.70): VV010922.D (-1686) (-)

Ion 127.00 (126.70 to 127.70): VV010922.D (-1686) (-)

6.55

50000

40000

30000

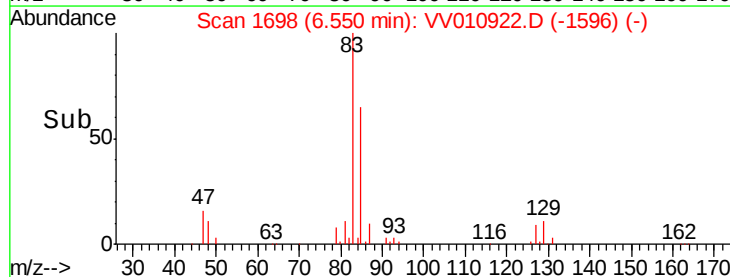
20000

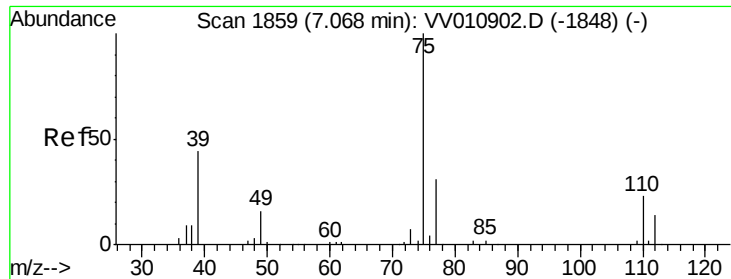
10000

0

6.50 6.55 6.60 6.65

Time-->



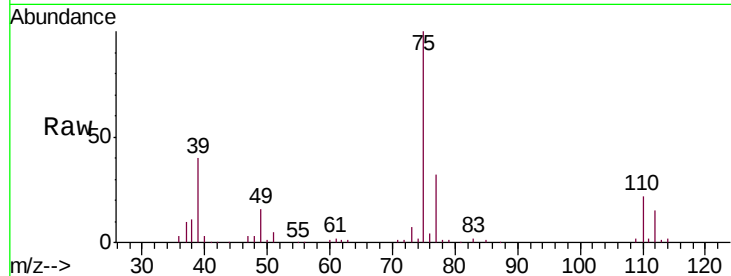


#42

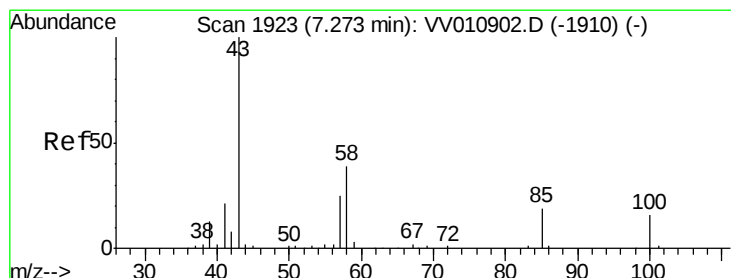
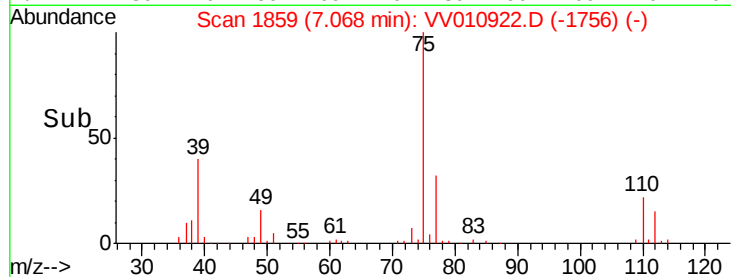
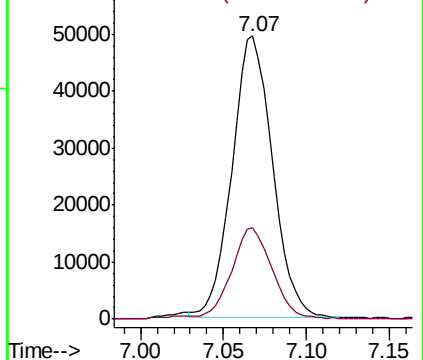
cis-1,3-Dichloropropene
Concen: 23.817 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

Instrument :
MSVOA_V
ClientSampled :
VSTD02562

Tgt Ion: 75 Resp: 83592
Ion Ratio Lower Upper
75 100
77 32.5 21.5 39.9



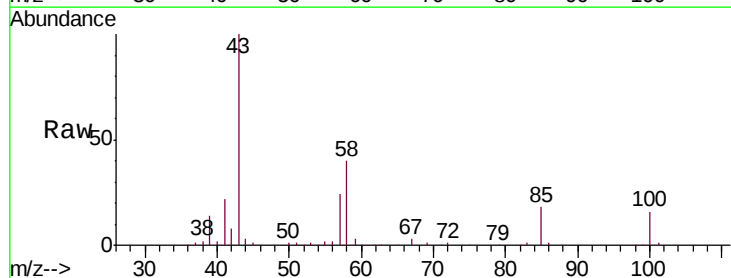
Abundance Ion 75.00 (74.70 to 75.70): VV010922.D (-1848) (-)
Ion 77.00 (76.70 to 77.70): VV010922.D (-1848) (-)



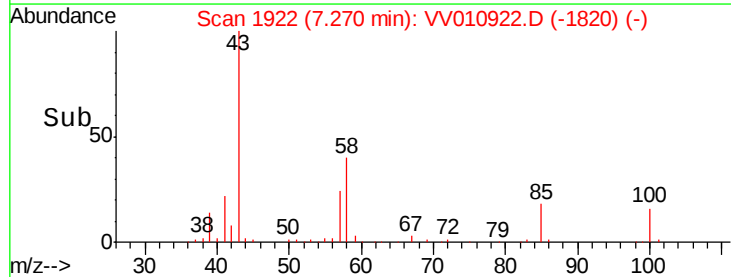
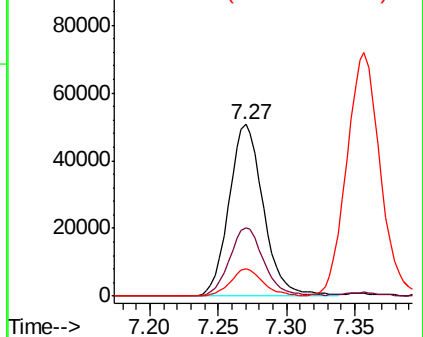
#43

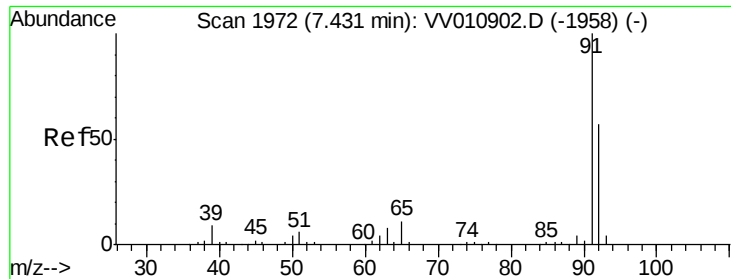
4-Methyl-2-pentanone
Concen: 52.405 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

Tgt Ion: 43 Resp: 89035
Ion Ratio Lower Upper
43 100
58 39.9 30.0 45.0
100 15.0 11.2 16.8



Abundance Ion 43.00 (42.70 to 43.70): VV010922.D (-1910) (-)
Ion 58.00 (57.70 to 58.70): VV010922.D (-1910) (-)
Ion 100.00 (99.70 to 100.70): VV010922.D (-1910) (-)





#44

Toluene

Concen: 24.698 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

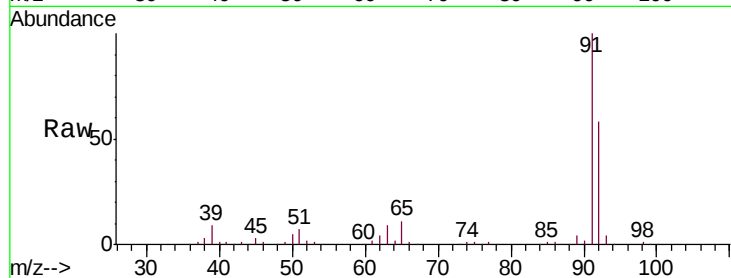
VSTD02562

Tgt Ion: 91 Resp: 242497

Ion Ratio Lower Upper

91 100

92 58.5 39.1 72.7



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

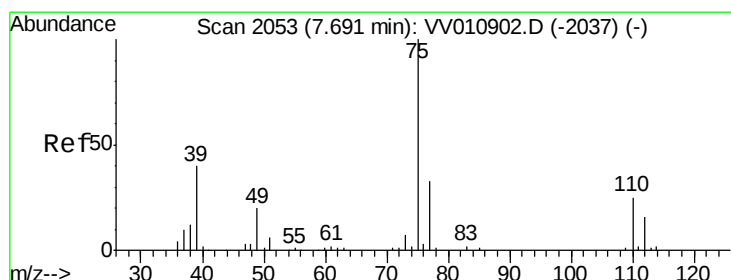
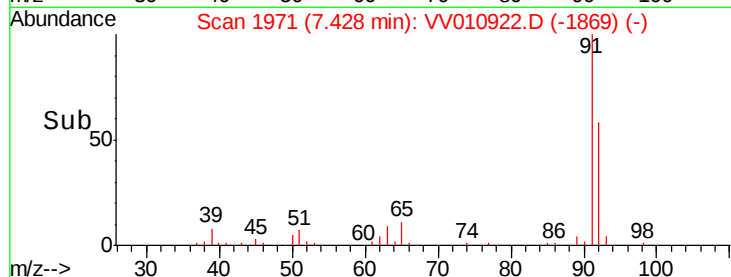
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.566 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010922.D

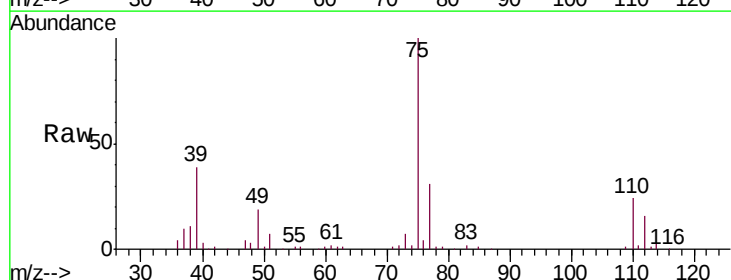
Acq: 16 May 2019 04:16

Tgt Ion: 75 Resp: 72870

Ion Ratio Lower Upper

75 100

77 30.6 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.69

50000

40000

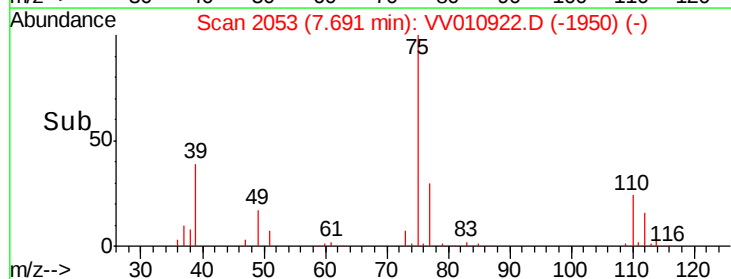
30000

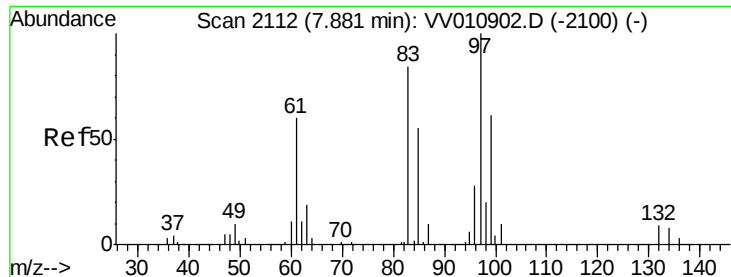
20000

10000

0

Time-->

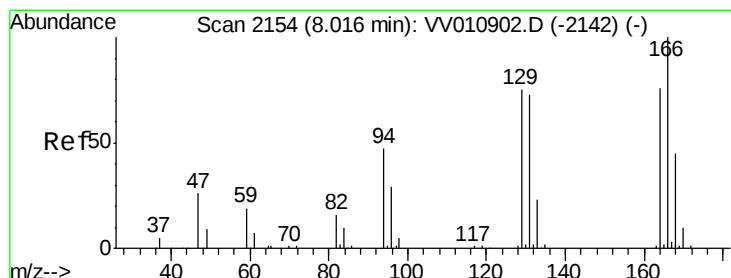
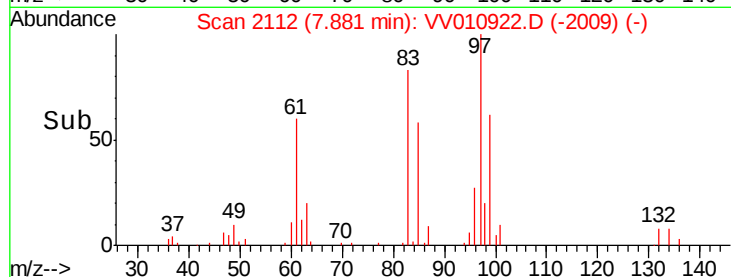
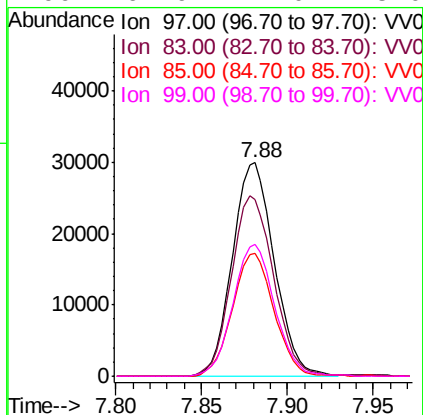
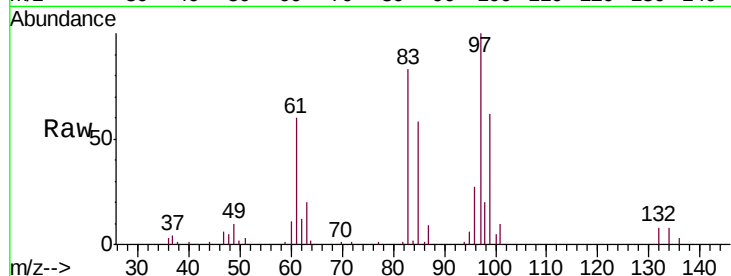




#46
 1,1,2-Trichloroethane
 Concen: 26.158 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

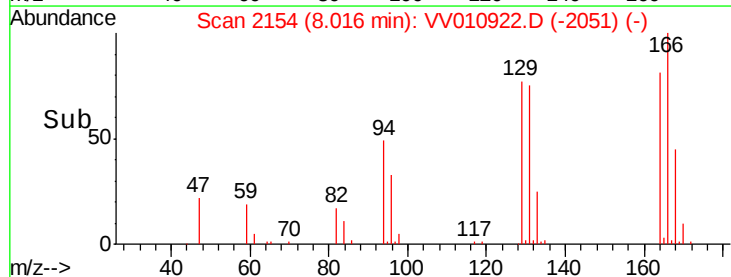
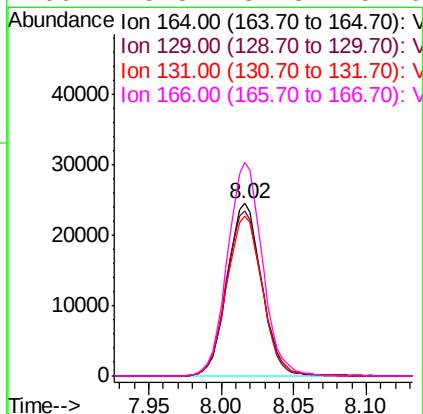
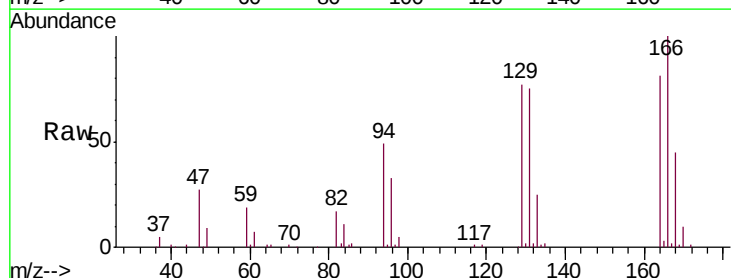
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

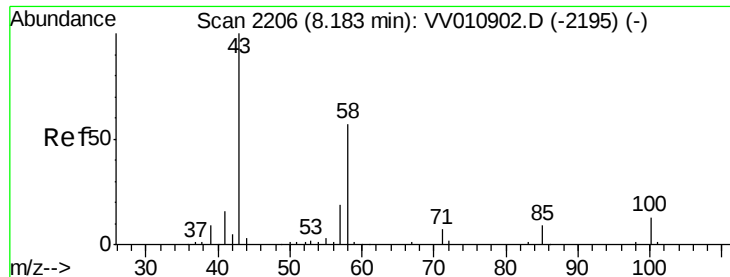
Tgt Ion:	97	Resp:	50682
Ion	Ratio	Lower	Upper
97	100		
83	82.7	57.2	106.2
85	57.7	37.4	69.4
99	61.9	42.0	78.0



#47
 Tetrachloroethene
 Concen: 23.979 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

Tgt Ion:	164	Resp:	40562
Ion	Ratio	Lower	Upper
164	100		
129	95.8	67.6	125.6
131	92.5	65.1	120.9
166	123.8	84.8	157.6

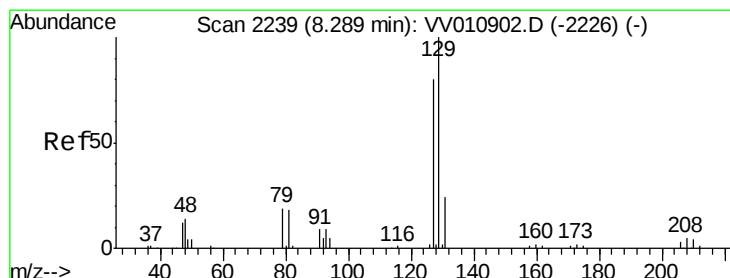
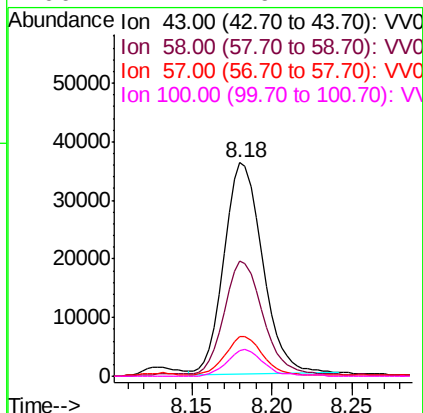
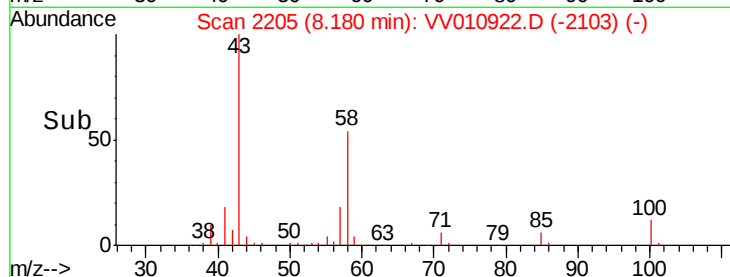
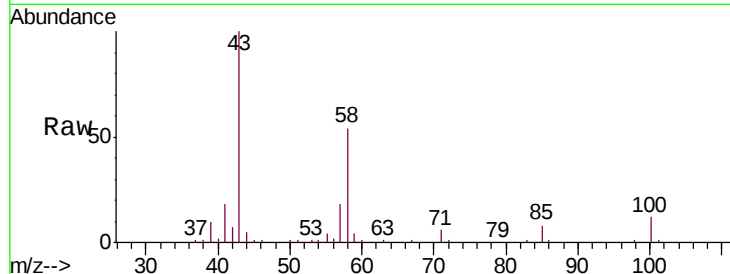




#49
2-Hexanone
Concen: 47.342 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

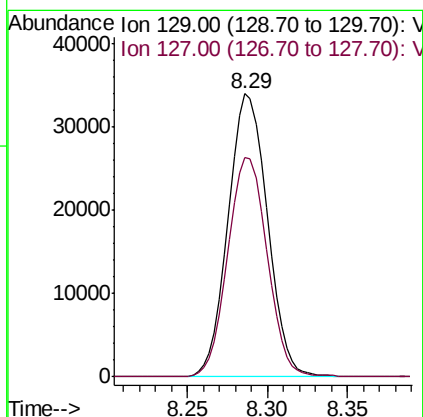
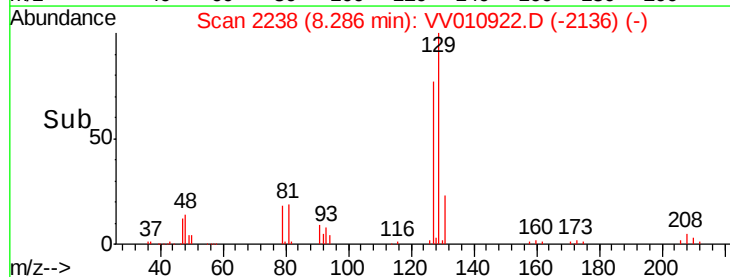
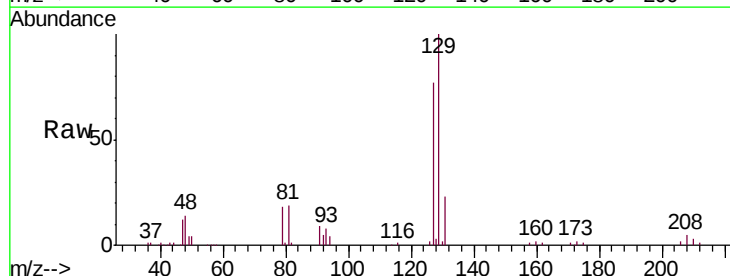
Instrument :
MSVOA_V
ClientSampled :
VSTD02562

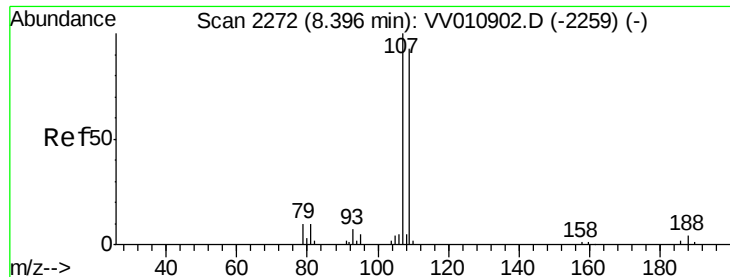
Tgt Ion: 43 Resp: 59405
Ion Ratio Lower Upper
43 100
58 53.7 41.0 61.6
57 19.0 14.3 21.5
100 12.2 9.4 14.2



#50
Dibromochloromethane
Concen: 26.477 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

Tgt Ion: 129 Resp: 57061
Ion Ratio Lower Upper
129 100
127 77.4 53.8 100.0

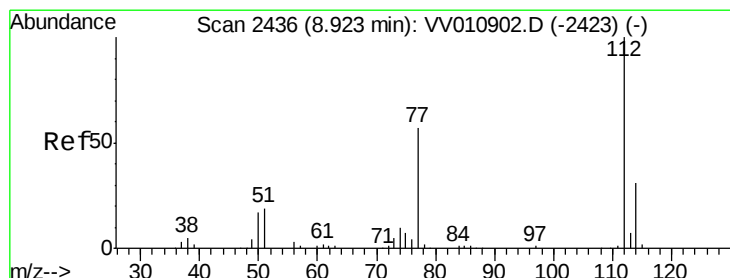
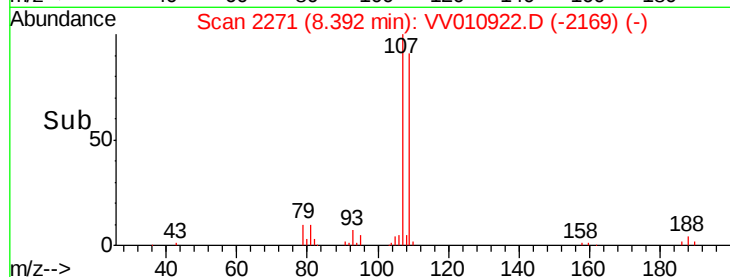
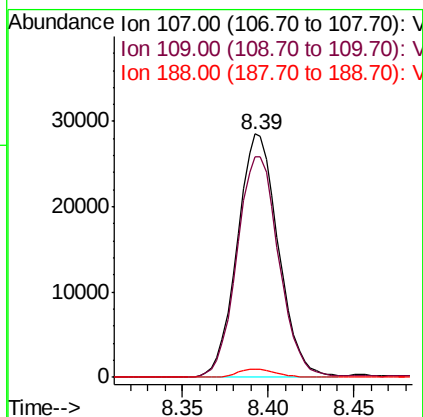
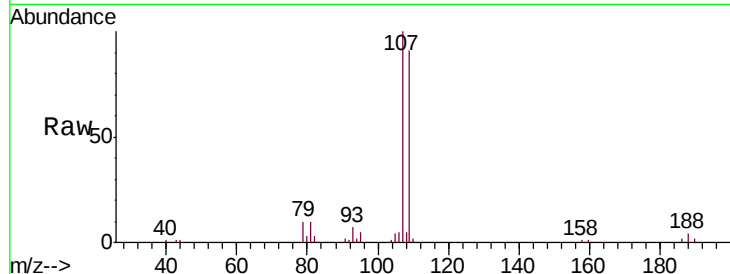




#51
 1,2-Dibromoethane
 Concen: 26.051 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

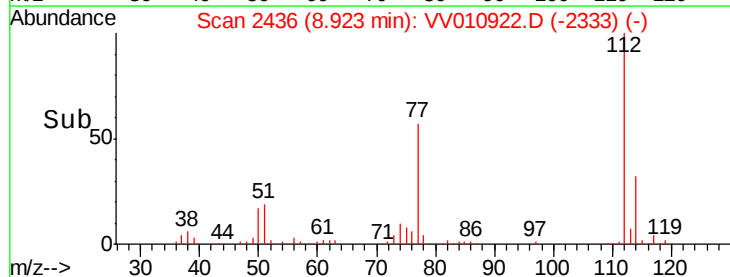
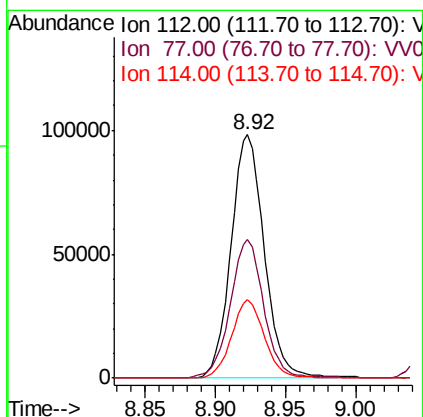
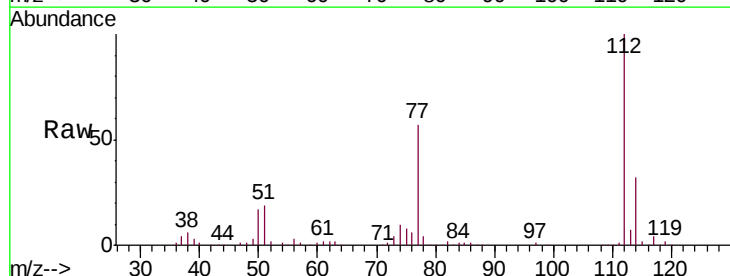
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

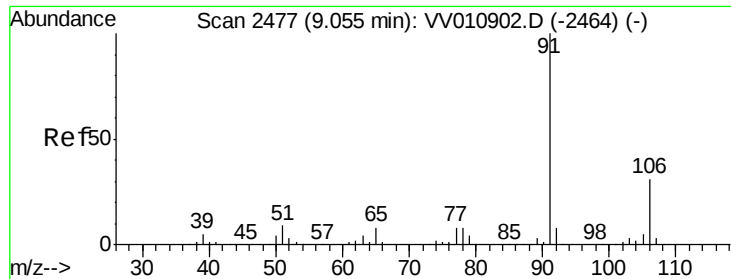
Tgt Ion:107 Resp: 47551
 Ion Ratio Lower Upper
 107 100
 109 90.5 66.7 123.9
 188 3.5 2.7 4.1



#52
 Chlorobenzene
 Concen: 24.303 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

Tgt Ion:112 Resp: 162507
 Ion Ratio Lower Upper
 112 100
 77 56.8 45.4 68.0
 114 32.1 22.4 41.6





#53

Ethylbenzene

Concen: 24.047 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

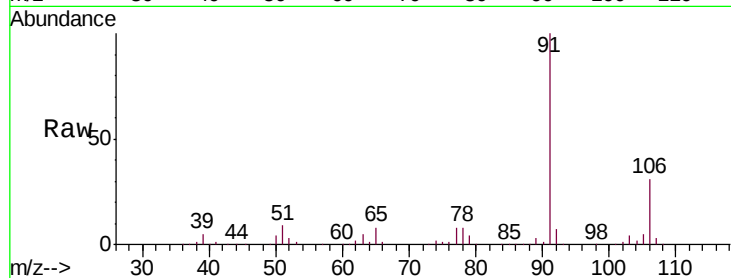
VSTD02562

Tgt Ion: 91 Resp: 258654

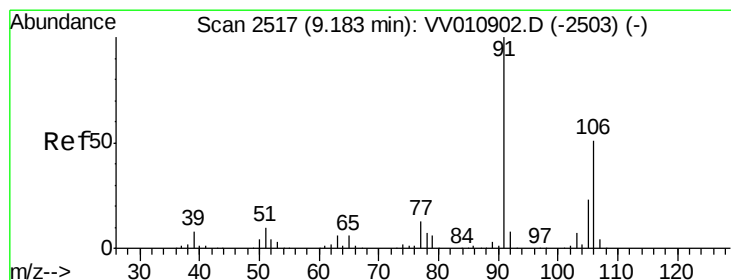
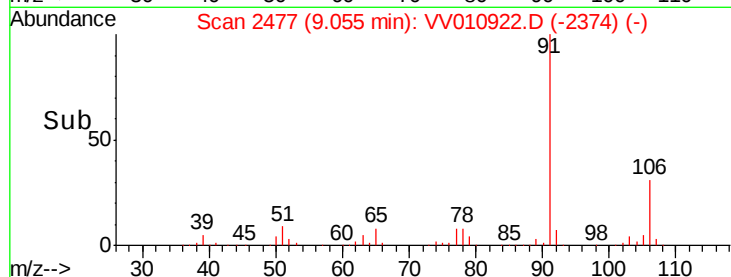
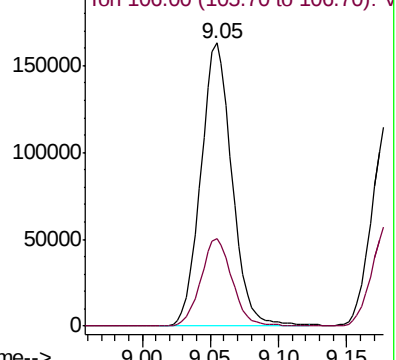
Ion Ratio Lower Upper

91 100

106 31.1 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV010922.D (-2464) (-)



#54

m,p-Xylene

Concen: 23.467 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010922.D

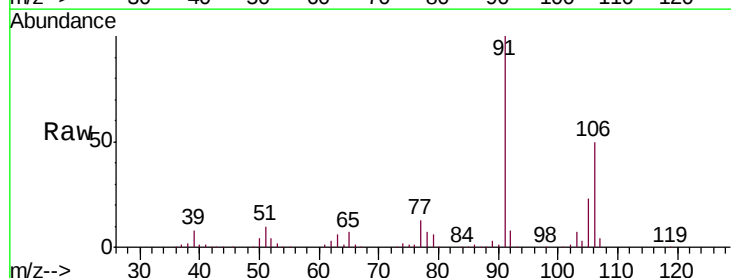
Acq: 16 May 2019 04:16

Tgt Ion: 106 Resp: 99453

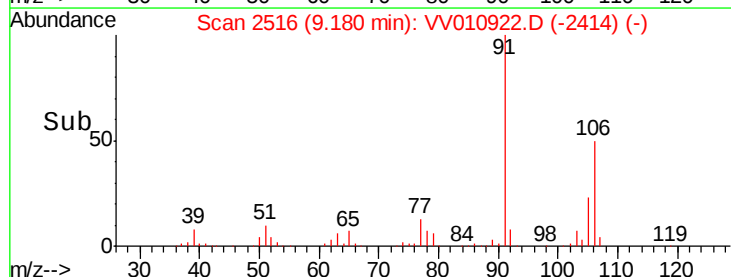
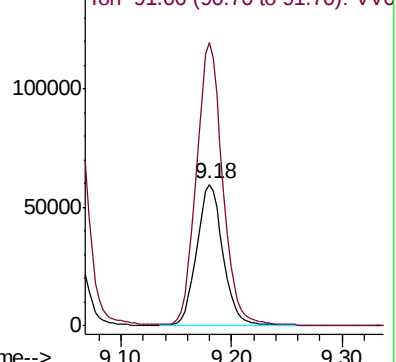
Ion Ratio Lower Upper

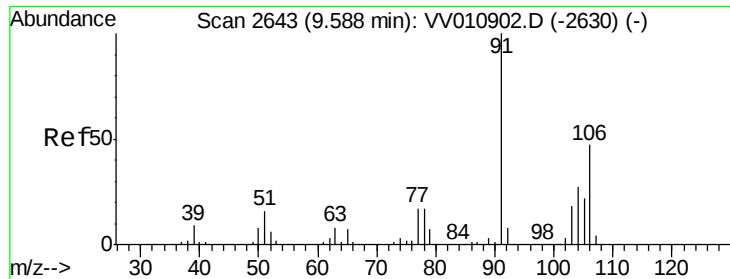
106 100

91 200.0 140.6 261.0



Abundance Ion 106.00 (105.70 to 106.70): VV010922.D (-2503) (-)

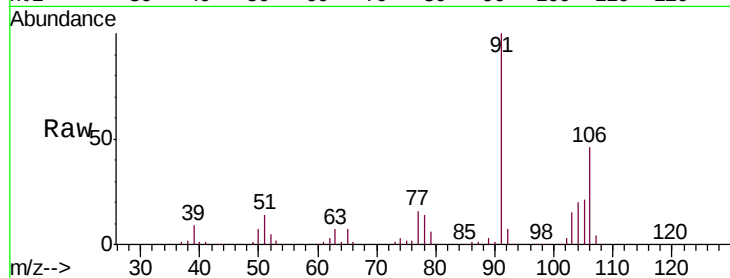




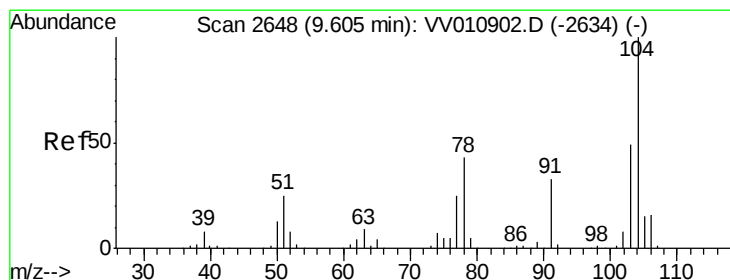
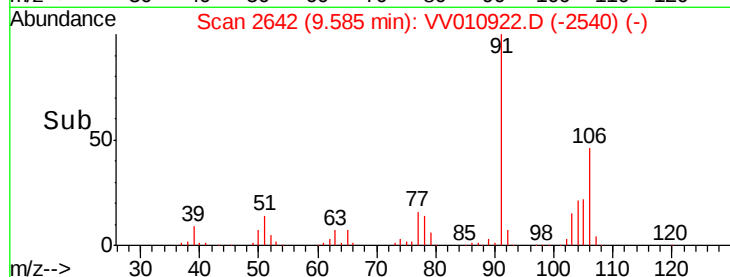
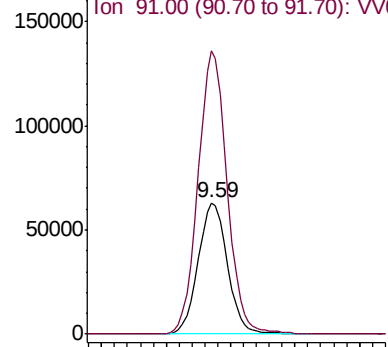
#55
o-xylene
Concen: 23.983 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

Tgt Ion:106 Resp: 99862
Ion Ratio Lower Upper
106 100
91 215.3 146.9 272.9

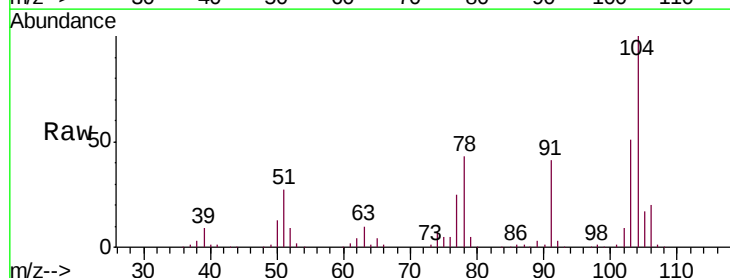


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

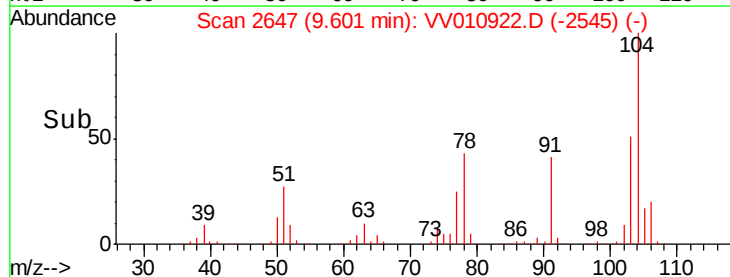
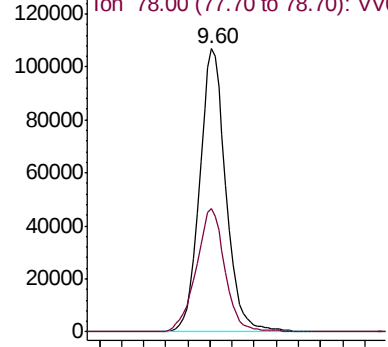


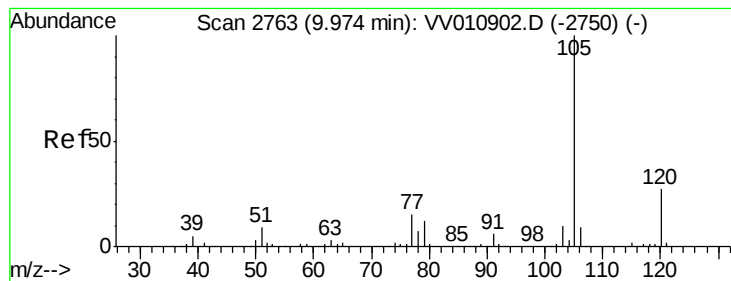
#56
Styrene
Concen: 24.611 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. -0.00 min
Lab File: VV010922.D
Acq: 16 May 2019 04:16

Tgt Ion:104 Resp: 175714
Ion Ratio Lower Upper
104 100
78 43.4 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: 23.827 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

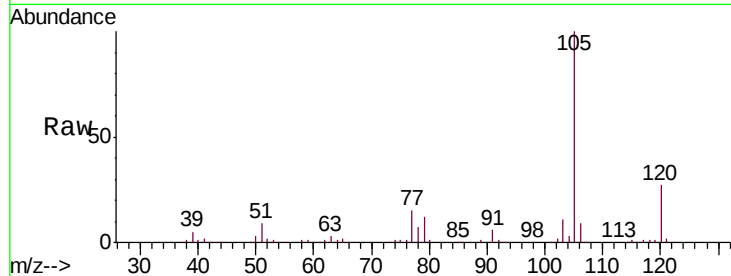
Tgt Ion: 105 Resp: 248338

Ion Ratio Lower Upper

105 100

120 27.0 21.0 31.4

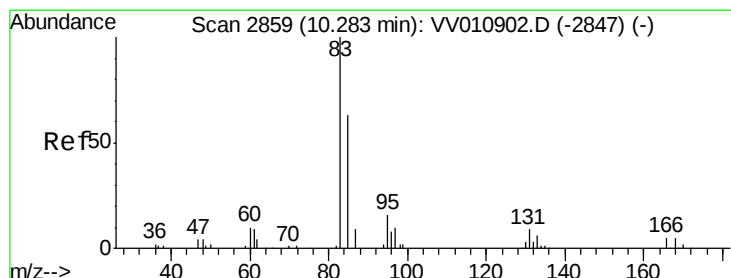
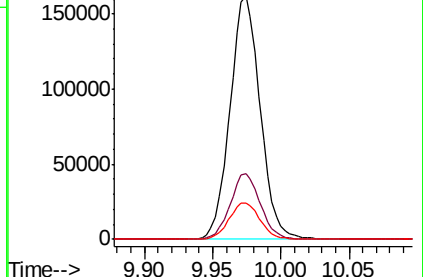
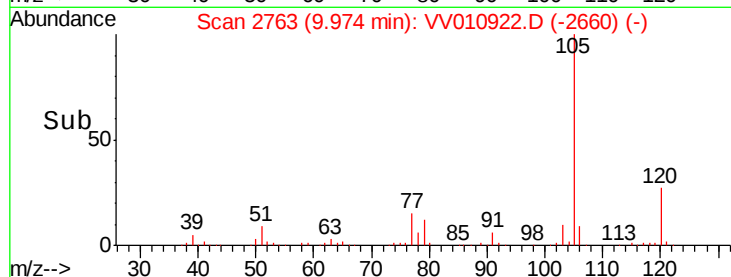
77 15.4 12.2 18.4



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: 25.565 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

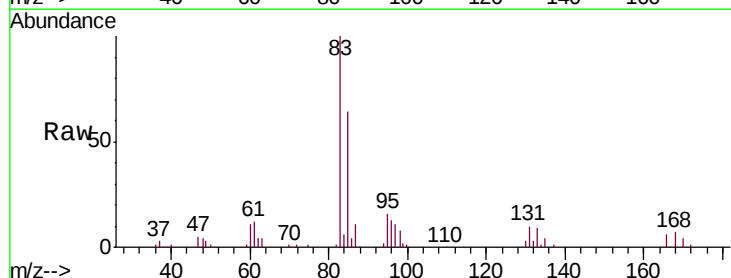
Tgt Ion: 83 Resp: 65415

Ion Ratio Lower Upper

83 100

85 64.4 46.7 86.7

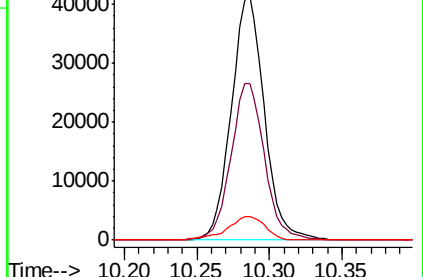
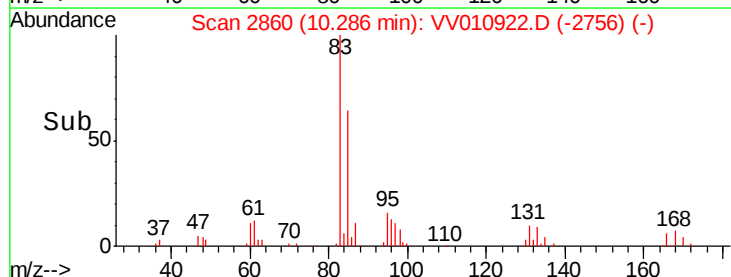
131 9.8 8.5 12.7

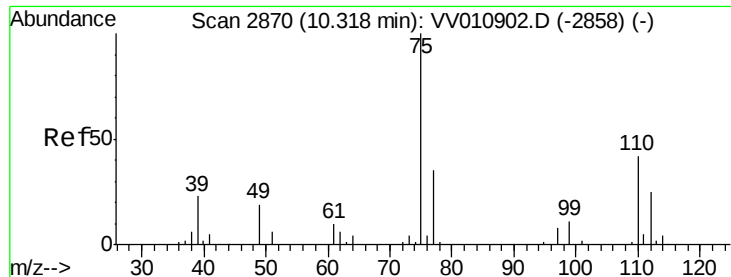


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

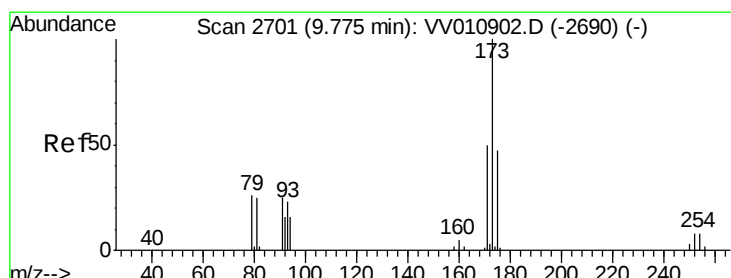
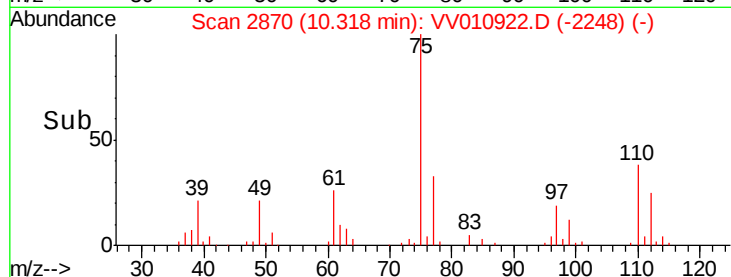
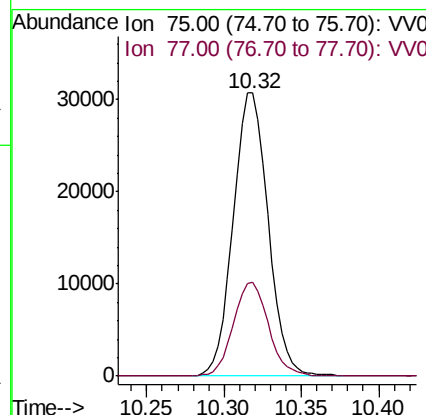
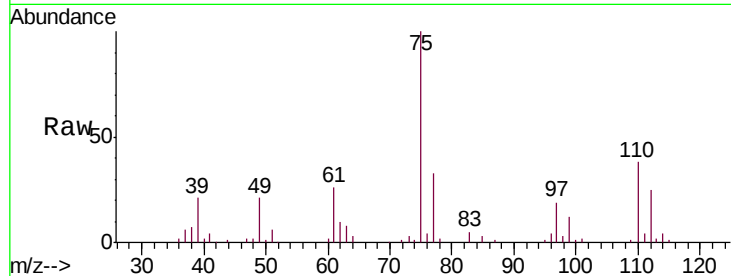




#59
 1,2,3-Trichloropropane
 Concen: 25.958 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

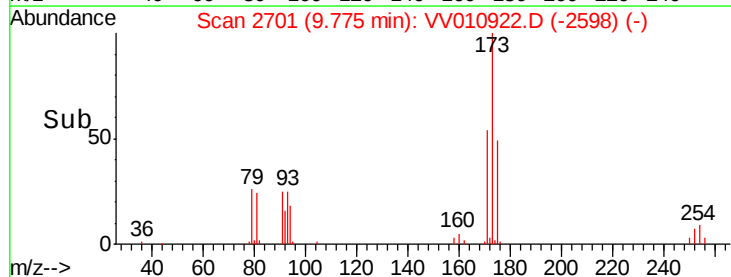
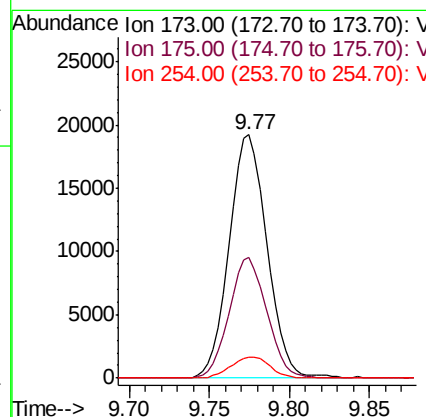
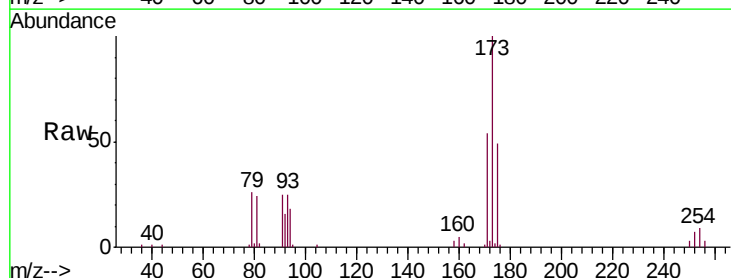
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

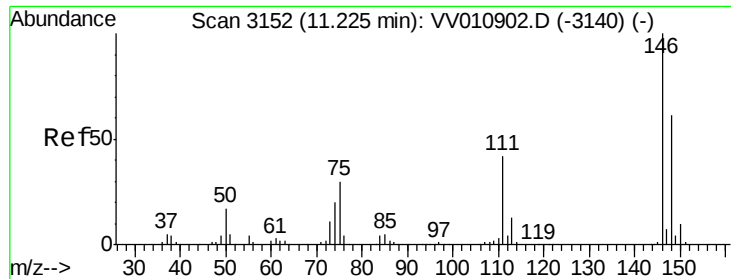
Tgt Ion: 75 Resp: 48125
 Ion Ratio Lower Upper
 75 100
 77 33.3 26.4 39.6



#62
 Bromoform
 Concen: 28.499 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

Tgt Ion: 173 Resp: 31050
 Ion Ratio Lower Upper
 173 100
 175 49.0 38.1 57.1
 254 8.8 5.4 8.2#

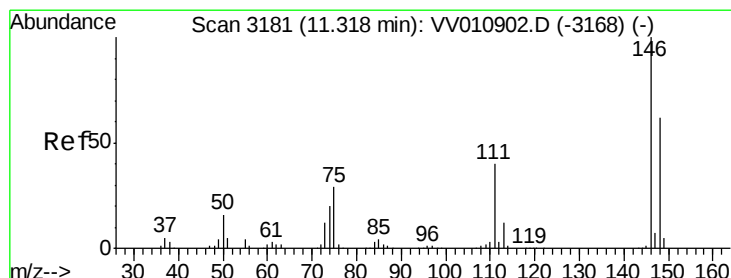
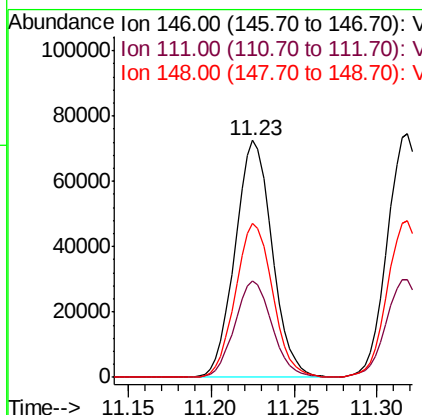
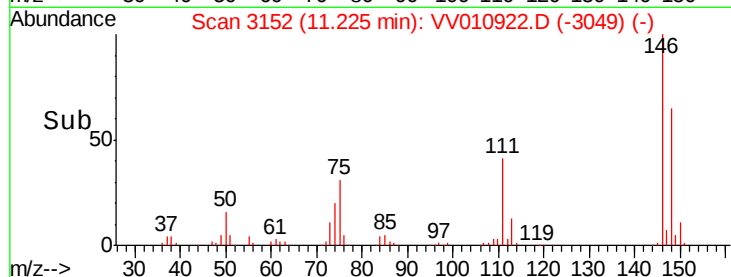
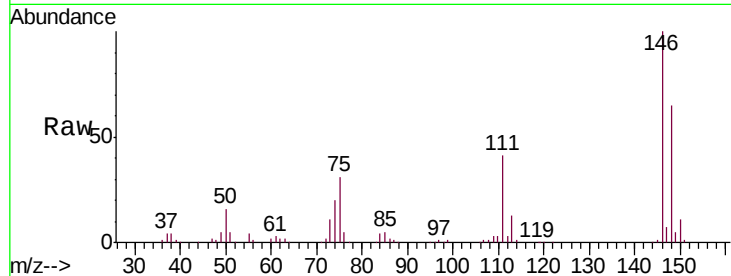




#63
 1,3-Dichlorobenzene
 Concen: 23.429 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

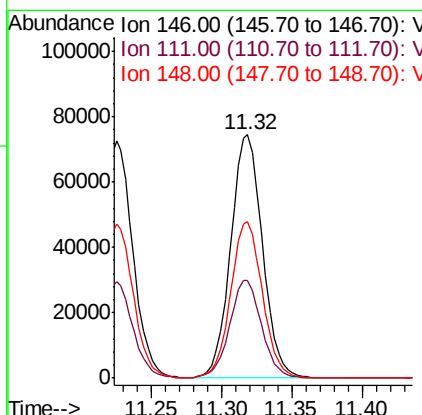
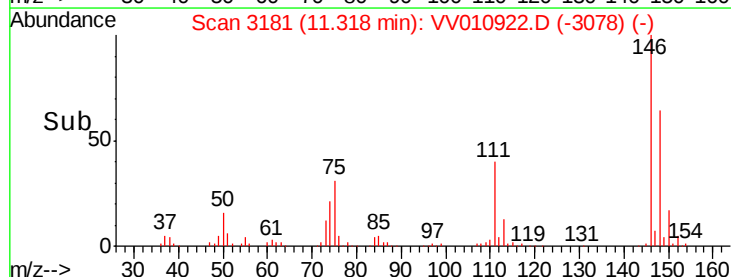
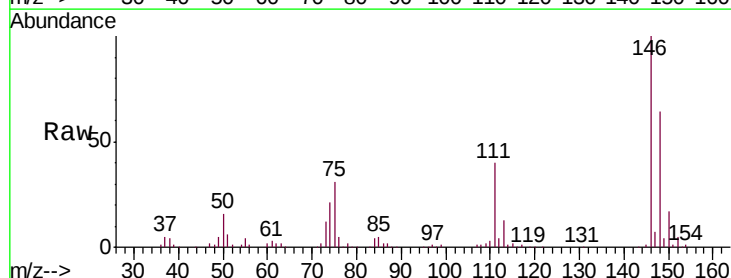
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

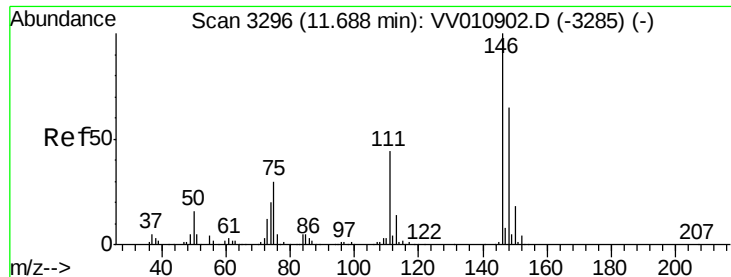
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	28.1	52.1
148	65.1	44.4	82.5



#64
 1,4-Dichlorobenzene
 Concen: 23.588 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	27.9	51.7
148	64.4	45.9	85.3





#65

1,2-Dichlorobenzene

Concen: 24.115 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

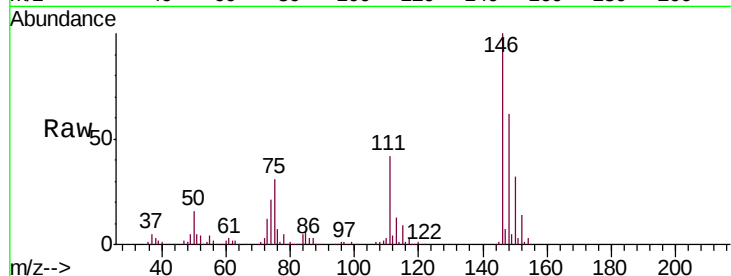
Tgt Ion:146 Resp: 116027

Ion Ratio Lower Upper

146 100

111 41.7 33.4 50.0

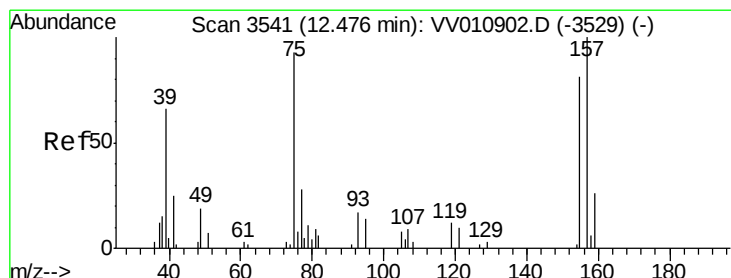
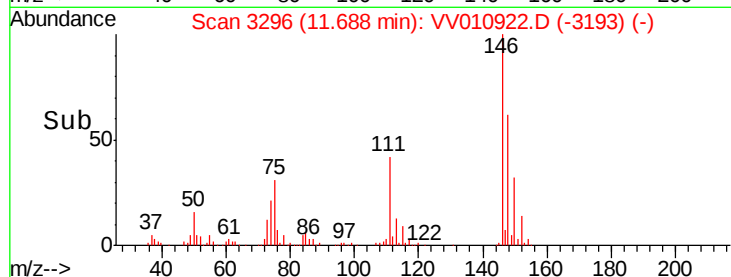
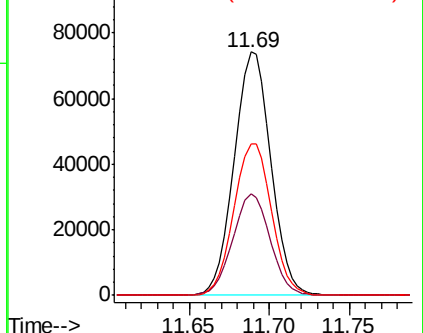
148 62.3 49.1 73.7



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: 27.139 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

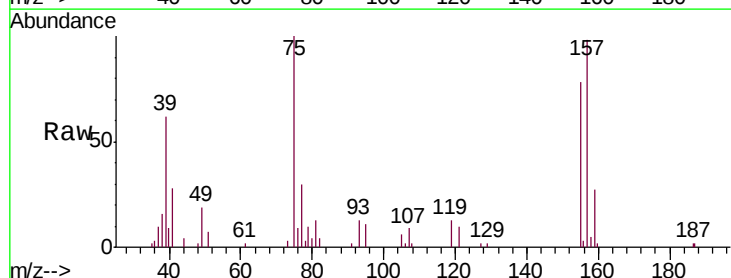
Tgt Ion: 75 Resp: 9779

Ion Ratio Lower Upper

75 100

157 98.0 97.6 146.4

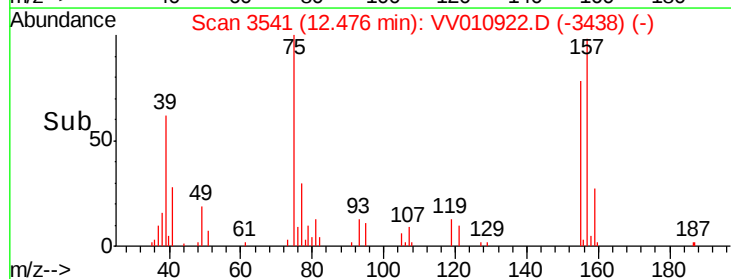
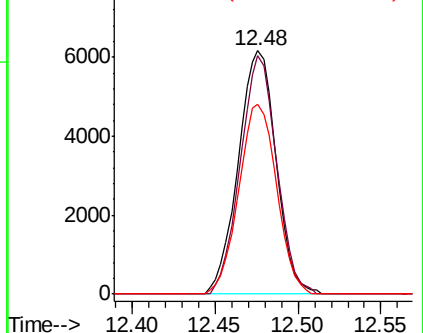
155 78.1 63.6 95.4

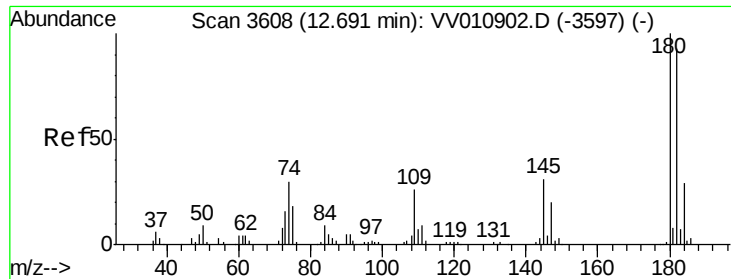


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

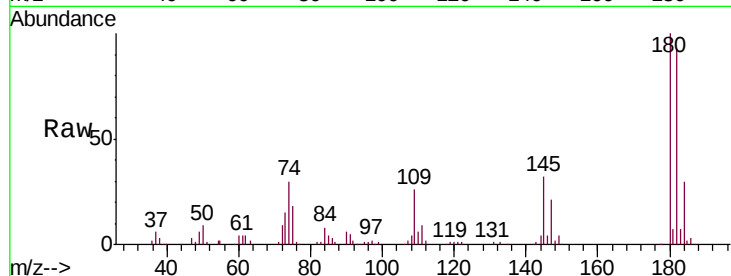




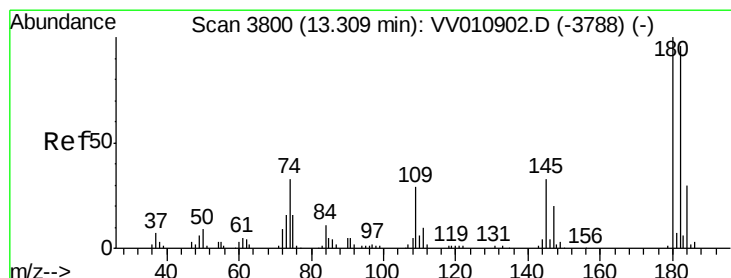
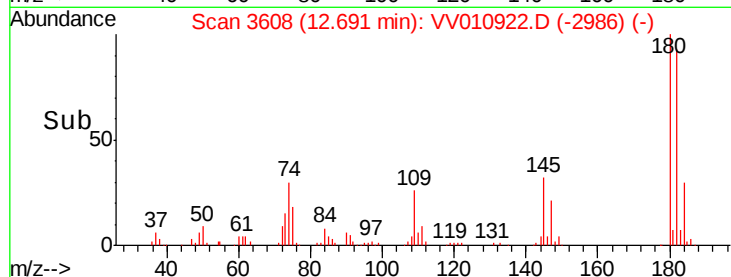
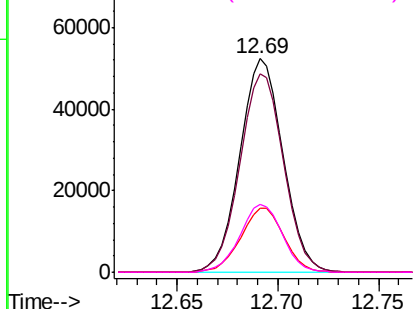
#67
 1,3,5-Trichlorobenzene
 Concen: 22.356 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion:180 Resp: 78572
 Ion Ratio Lower Upper
 180 100
 182 94.2 75.9 113.9
 184 30.0 24.1 36.1
 145 31.4 25.4 38.0

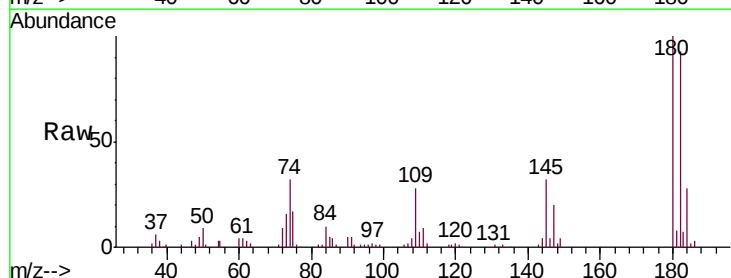


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

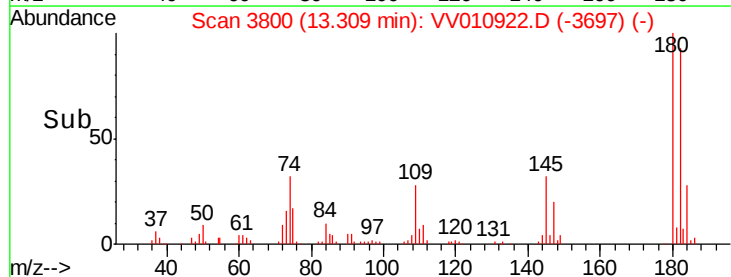
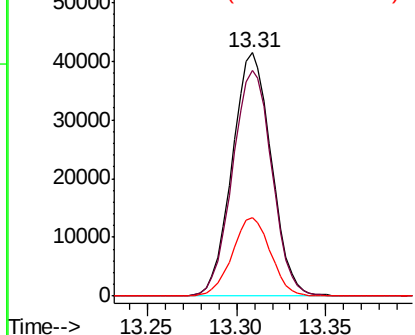


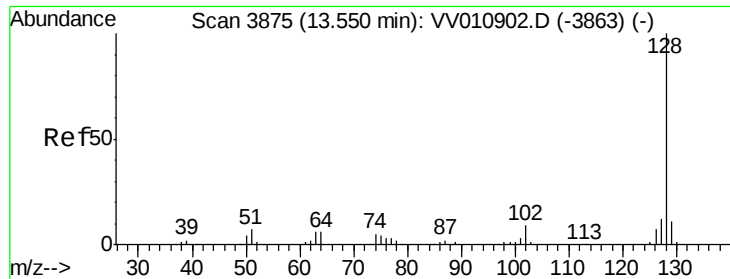
#68
 1,2,4-trichlorobenzene
 Concen: 22.288 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV010922.D
 Acq: 16 May 2019 04:16

Tgt Ion:180 Resp: 63253
 Ion Ratio Lower Upper
 180 100
 182 93.3 74.2 111.2
 145 31.8 25.4 38.0



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





#69

Naphthalene

Concen: 23.404 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

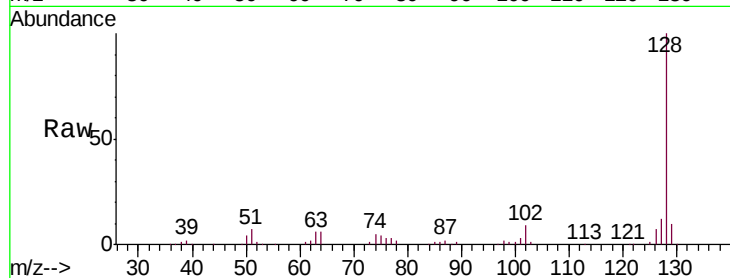
Tgt Ion:128 Resp: 139135

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

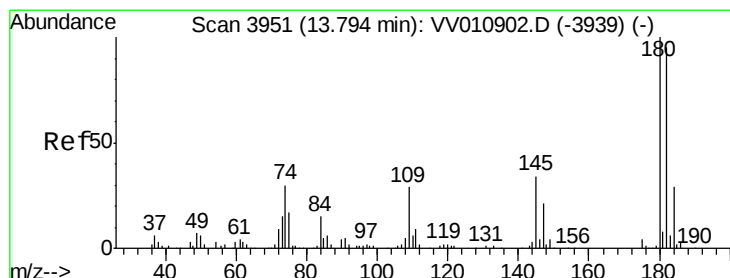
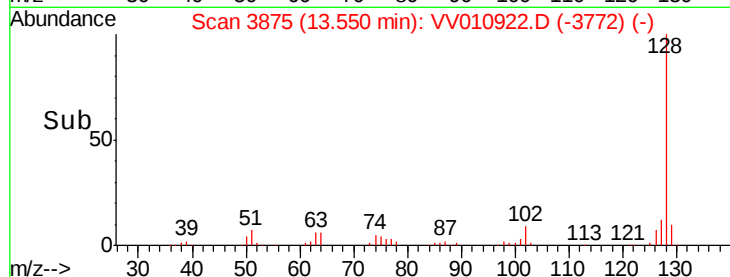
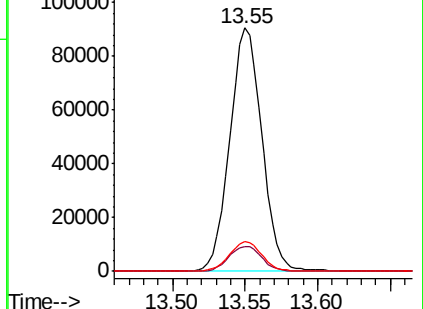
127 12.3 10.5 15.7



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: 23.299 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV010922.D

Acq: 16 May 2019 04:16

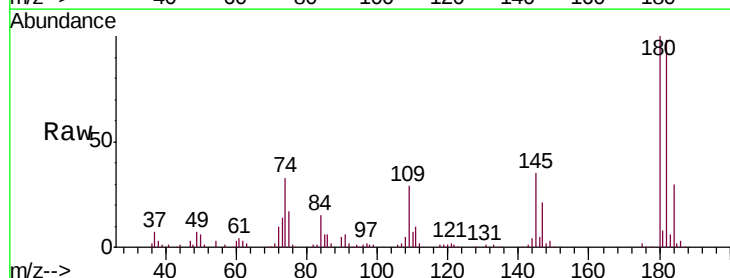
Tgt Ion:180 Resp: 62930

Ion Ratio Lower Upper

180 100

182 95.9 75.8 113.6

145 34.2 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

