

Data File : VV010940.D
Acq On : 16 May 2019 20:46
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Quant Time: May 17 06:32:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Fri May 17 06:28:25 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	122884	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	124941	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	62279	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	36282	23.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.68%
7) Chloroethane-d5	1.56	69	27827	27.27	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	109.08%
10) 1,1-Dichloroethene-d2	2.12	63	72243	24.38	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	97.52%
20) 2-Butanone-d5	3.94	46	26424	53.65	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.30%
24) Chloroform-d	4.40	84	84051	23.69	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.76%
26) 1,2-Dichloroethane-d4	5.08	65	49167	24.38	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.52%
29) Benzene-d6	5.10	84	173946	25.15	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.60%
33) 1,2-Dichloropropane-d6	6.12	67	54553	24.72	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.88%
37) Toluene-d8	7.36	98	165512	24.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.64%
38) trans-1,3-Dichloropropene-	7.66	79	22351	23.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.88%
39) 2-Hexanone-d5	8.13	63	17392	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	52605	25.71	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.84%
61) 1,2-Dichlorobenzene-d4	11.67	152	61833	23.77	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.08%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	41347	30.328	ug/L 99
3) Chloromethane	1.25	50	41833	25.621	ug/L 98
5) Vinyl chloride	1.32	62	45087	25.648	ug/L 96
6) Bromomethane	1.51	94	16485	40.403	ug/L 96
8) Chloroethane	1.59	64	25094	27.601	ug/L 99
9) Trichlorofluoromethane	1.76	101	68914	27.386	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	42314	27.879	ug/L 99
12) 1,1-Dichloroethene	2.13	96	37213	26.279	ug/L 93
13) Acetone	2.19	43	22951	45.746	ug/L 98
14) Carbon disulfide	2.31	76	103771	24.328	ug/L 100
15) Methyl Acetate	2.46	43	21484	20.560	ug/L 98
16) Methylene chloride	2.53	84	48338	24.375	ug/L 96
17) Methyl tert-butyl Ether	2.81	73	119805	25.911	ug/L 99
18) trans-1,2-Dichloroethene	2.78	96	44197	26.201	ug/L 98
19) 1,1-Dichloroethane	3.23	63	86534	26.497	ug/L 98
21) 2-Butanone	4.02	43	34901	53.893	ug/L 96
22) cis-1,2-Dichloroethene	3.96	96	51989	26.337	ug/L 96

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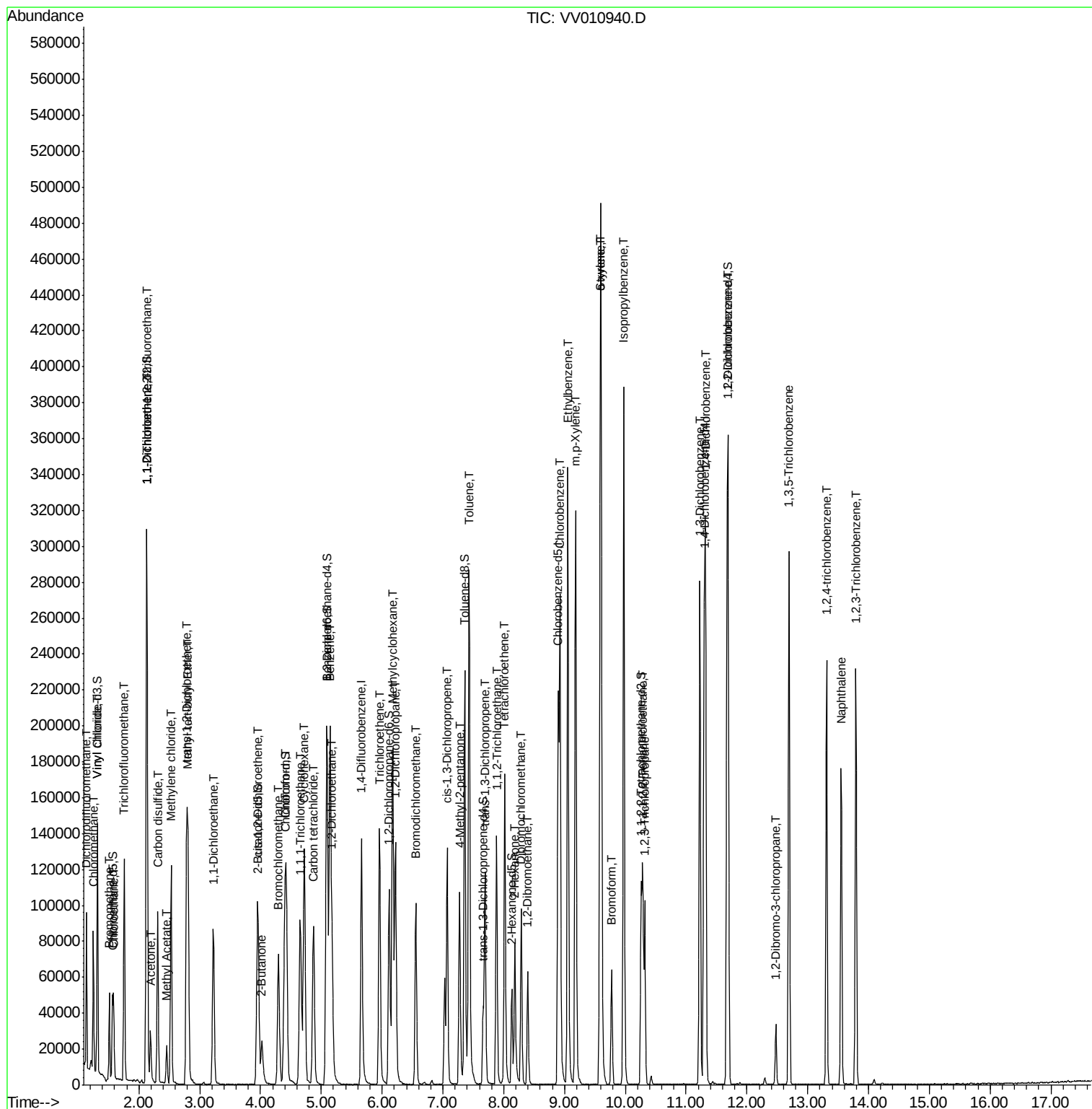
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	24232	26.352	ug/L	93
25) Chloroform	4.42	83	95400	26.929	ug/L	100
27) 1,2-Dichloroethane	5.18	62	63700	25.771	ug/L	95
30) Cyclohexane	4.72	56	67752	28.206	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	73551	27.104	ug/L	97
32) Carbon tetrachloride	4.87	117	65456	28.266	ug/L	99
34) Benzene	5.14	78	198268	27.227	ug/L	100
35) Trichloroethene	5.96	95	51193	27.124	ug/L	99
36) Methylcyclohexane	6.17	83	79517	30.275	ug/L	98
40) 1,2-Dichloropropane	6.22	63	53981	27.216	ug/L	98
41) Bromodichloromethane	6.56	83	67434	26.514	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	77231	26.690	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	72932	52.067	ug/L	98
44) Toluene	7.43	91	225879	27.905	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	64701	26.457	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	42732	26.752	ug/L	92
47) Tetrachloroethene	8.02	164	38354	27.502	ug/L	92
49) 2-Hexanone	8.18	43	52221	50.479	ug/L	96
50) Dibromochloromethane	8.29	129	48178	27.115	ug/L	95
51) 1,2-Dibromoethane	8.40	107	40469	26.892	ug/L	96
52) Chlorobenzene	8.93	112	148304	26.901	ug/L	98
53) Ethylbenzene	9.05	91	246990	27.852	ug/L	99
54) m,p-Xylene	9.18	106	96726	27.683	ug/L	98
55) o-xylene	9.59	106	95516	27.824	ug/L	99
56) Styrene	9.60	104	166696	28.319	ug/L	99
57) Isopropylbenzene	9.97	105	249235	29.005	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	57750	27.375	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	41427	27.103	ug/L	97
62) Bromoform	9.78	173	26639	27.403	ug/L #	96
63) 1,3-Dichlorobenzene	11.23	146	113784	26.443	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	117872	26.442	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	113619	26.466	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	8653	26.913	ug/L	90
67) 1,3,5-Trichlorobenzene	12.69	180	85322	27.208	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	67222	26.547	ug/L	99
69) Naphthalene	13.55	128	132321	24.945	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	65383	27.129	ug/L	99

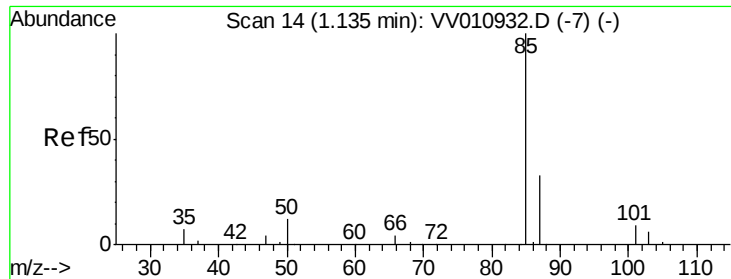
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 30.328 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

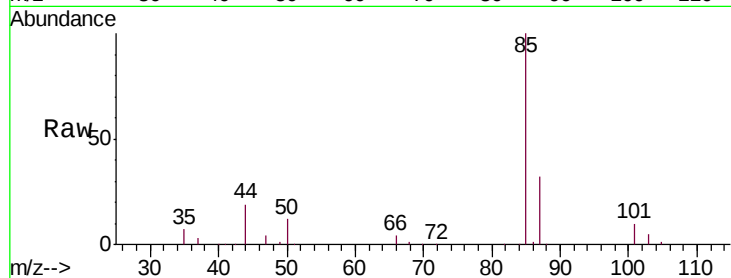
VSTD02564

Tgt Ion: 85 Resp: 41347

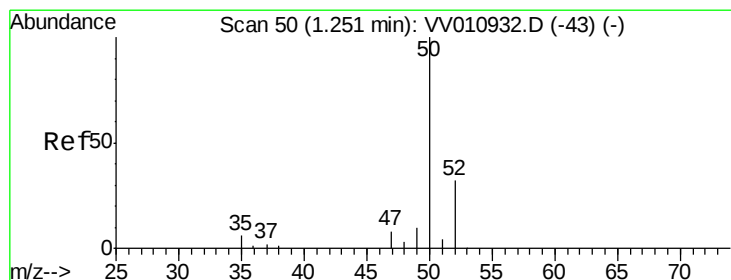
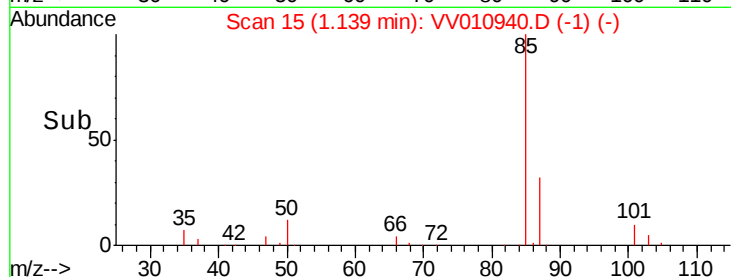
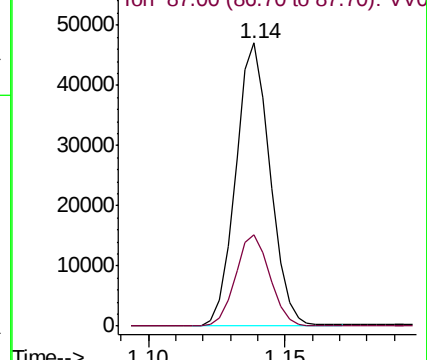
Ion Ratio Lower Upper

85 100

87 32.0 23.0 42.6



Abundance Ion 85.00 (84.70 to 85.70): VV010932.D (-7) (-)



#3

Chloromethane

Concen: 25.621 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV010940.D

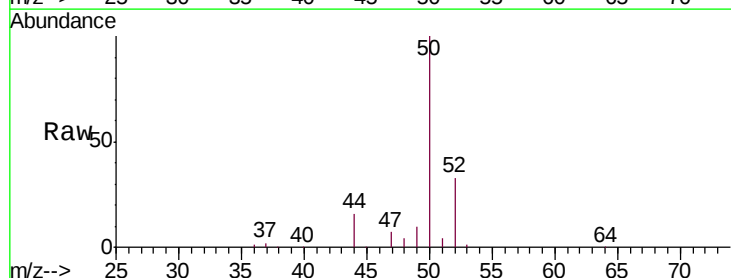
Acq: 16 May 2019 20:46

Tgt Ion: 50 Resp: 41833

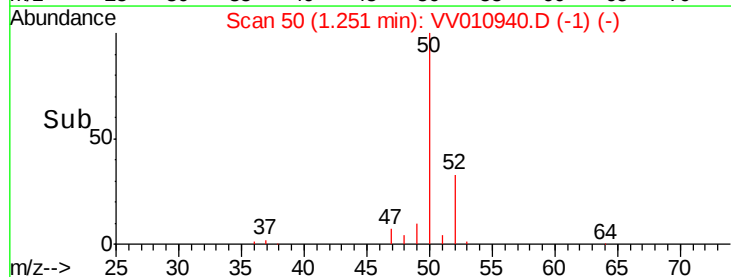
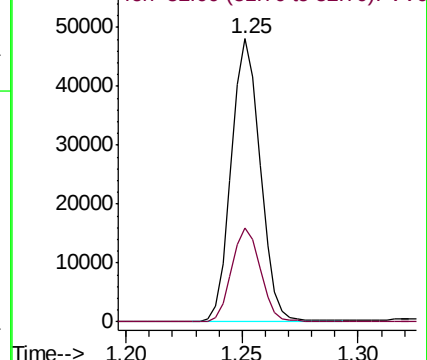
Ion Ratio Lower Upper

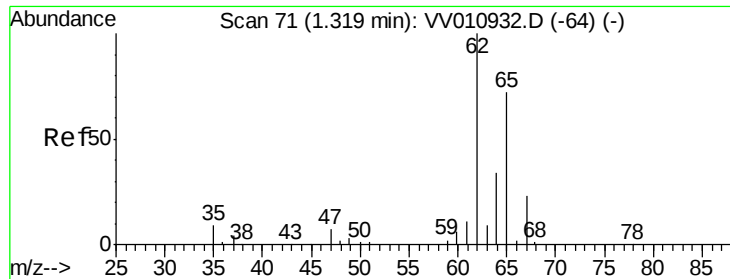
50 100

52 33.1 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VV010932.D (-43) (-)





#5

Vinyl chloride

Concen: 25.648 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

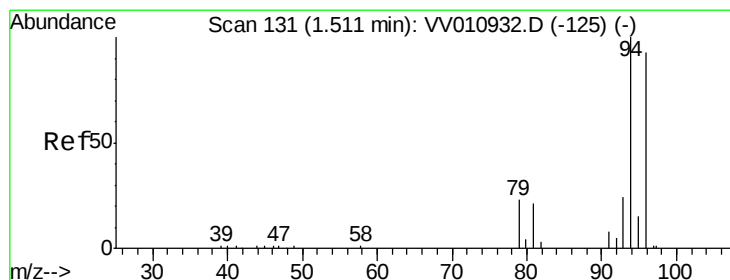
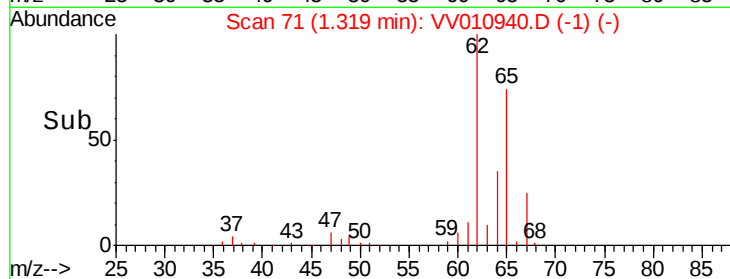
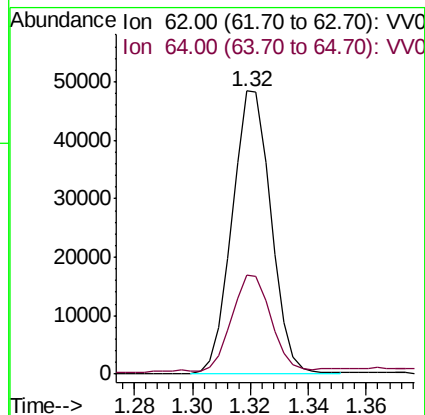
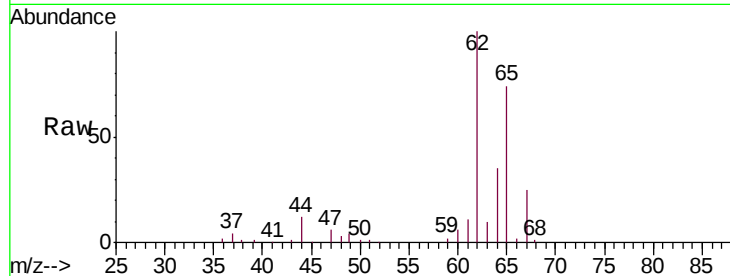
VSTD02564

Tgt Ion: 62 Resp: 45087

Ion Ratio Lower Upper

62 100

64 35.2 26.1 48.5



#6

Bromomethane

Concen: 40.403 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.00 min

Lab File: VV010940.D

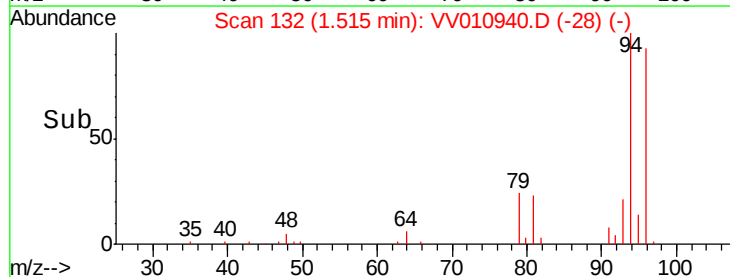
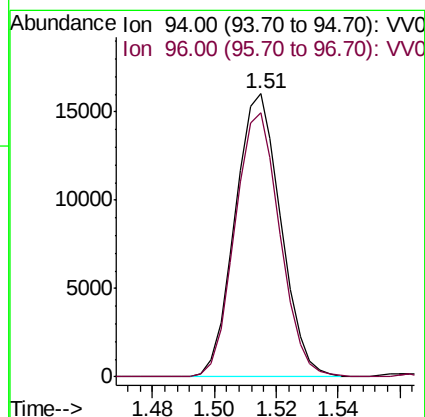
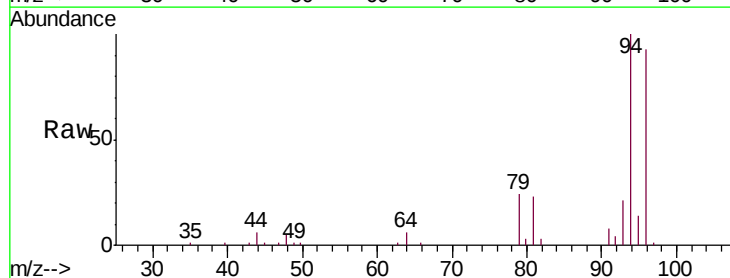
Acq: 16 May 2019 20:46

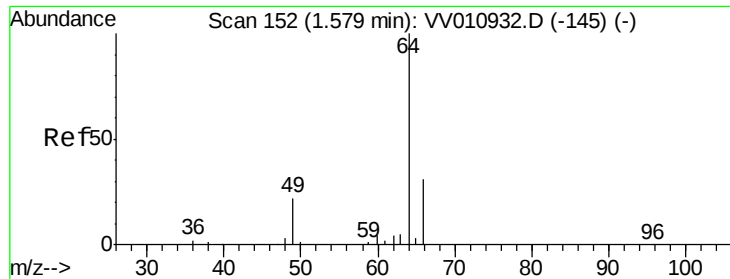
Tgt Ion: 94 Resp: 16485

Ion Ratio Lower Upper

94 100

96 91.8 9.6 181.6

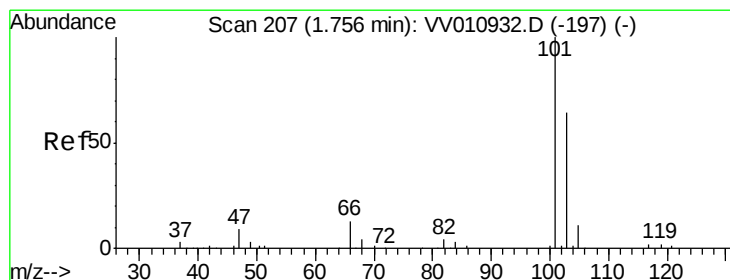
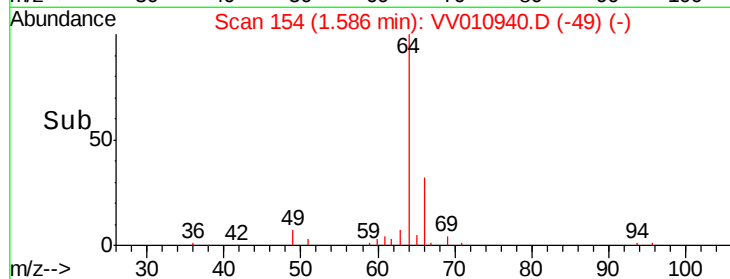
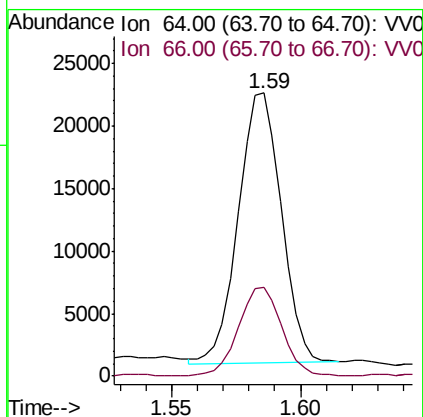
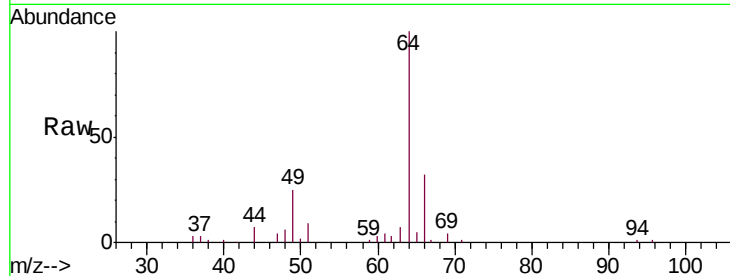




#8
 Chloroethane
 Concen: 27.601 ug/L
 RT: 1.59 min Scan# 154
 Delta R.T. 0.01 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

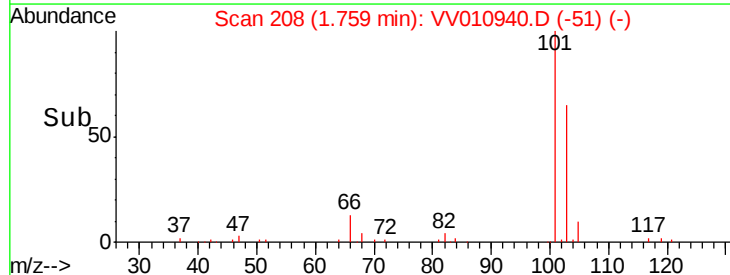
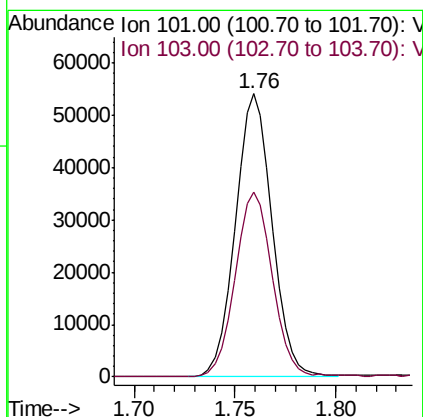
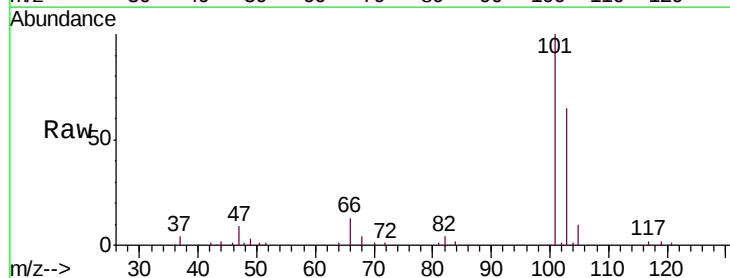
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

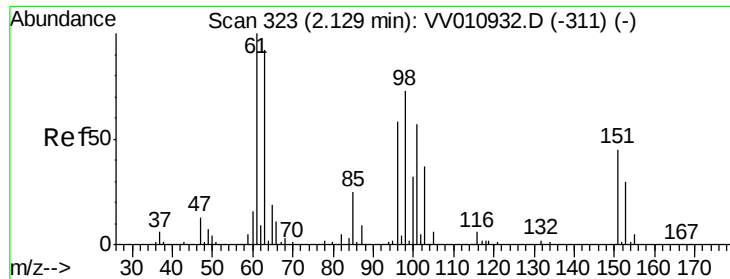
Tgt Ion: 64 Resp: 25094
 Ion Ratio Lower Upper
 64 100
 66 31.5 22.5 41.9



#9
 Trichlorofluoromethane
 Concen: 27.386 ug/L
 RT: 1.76 min Scan# 208
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Tgt Ion: 101 Resp: 68914
 Ion Ratio Lower Upper
 101 100
 103 65.8 45.4 84.4





#11

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

Concen: 27.879 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

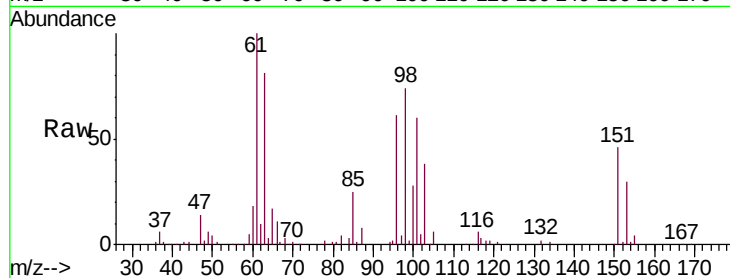
Tgt Ion:101 Resp: 42314

Ion Ratio Lower Upper

101 100

85 43.6 35.7 53.5

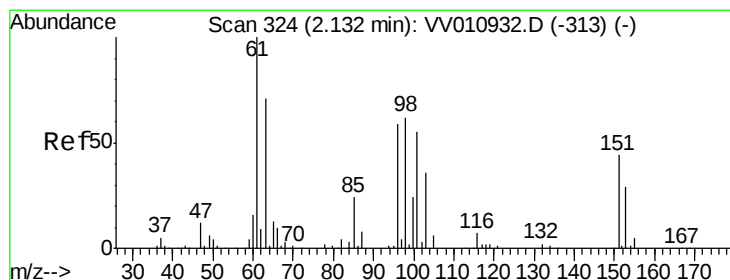
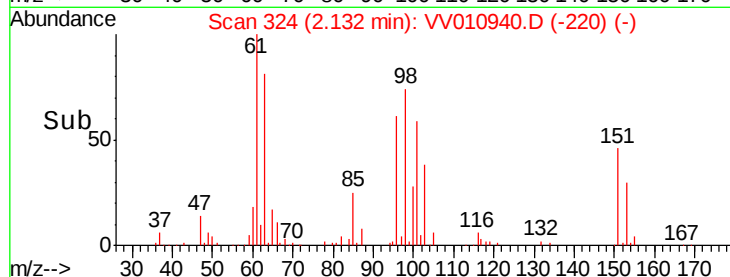
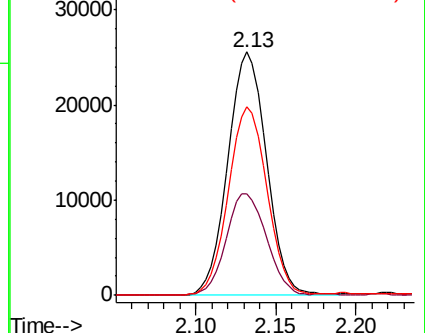
151 77.6 62.2 93.2



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: 26.279 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

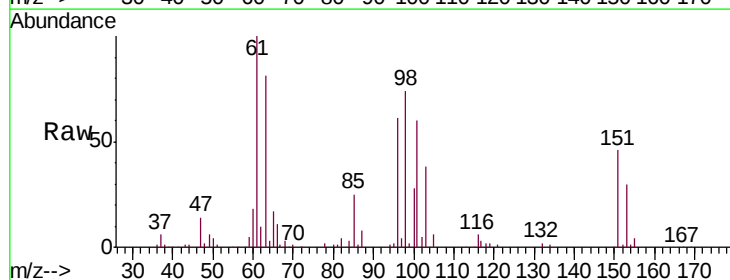
Tgt Ion: 96 Resp: 37213

Ion Ratio Lower Upper

96 100

61 162.9 117.5 218.3

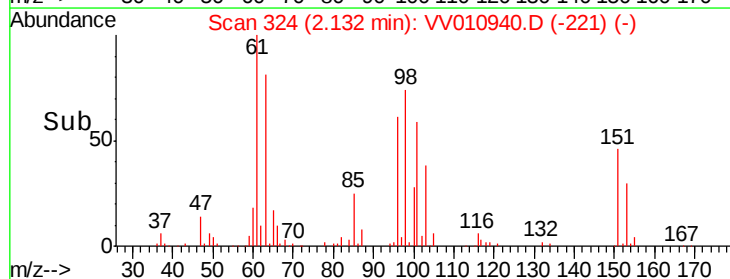
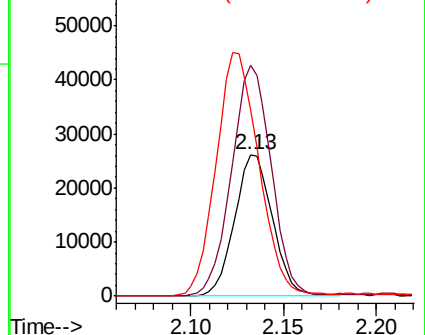
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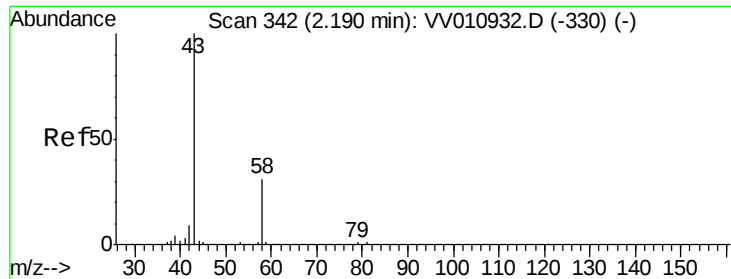


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 45.746 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

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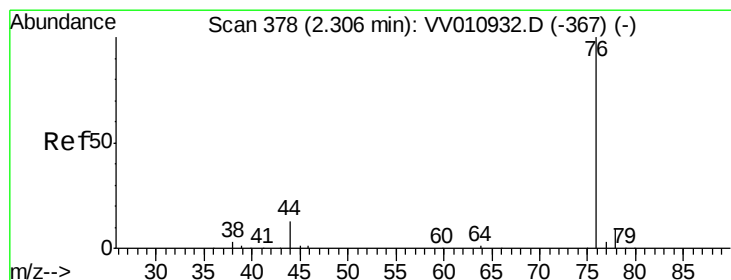
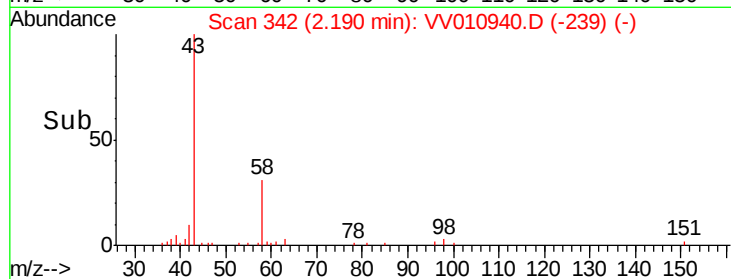
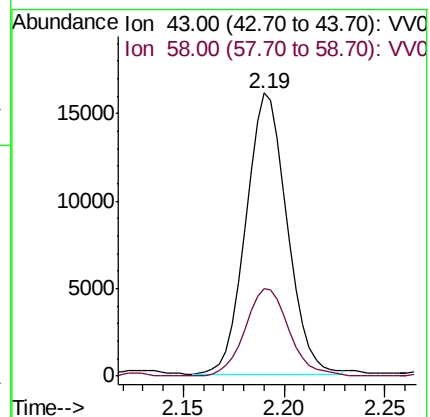
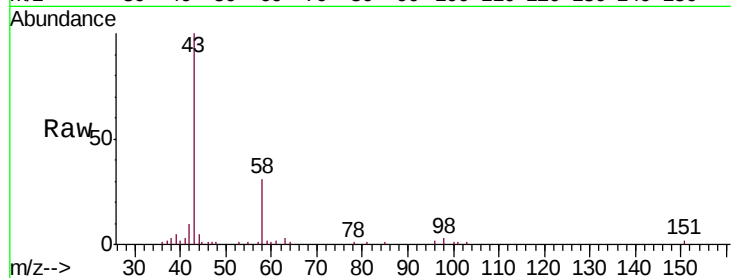
VSTD02564

Tgt Ion: 43 Resp: 22951

Ion Ratio Lower Upper

43 100

58 33.4 0.0 69.2



#14

Carbon disulfide

Concen: 24.328 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV010940.D

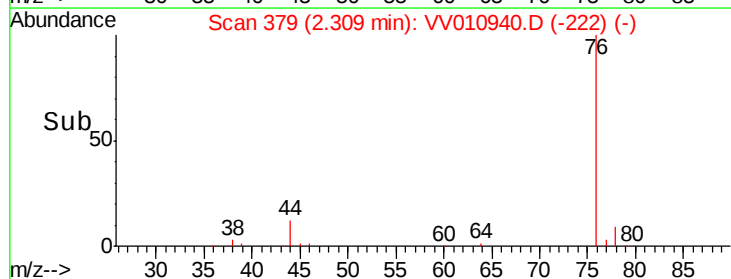
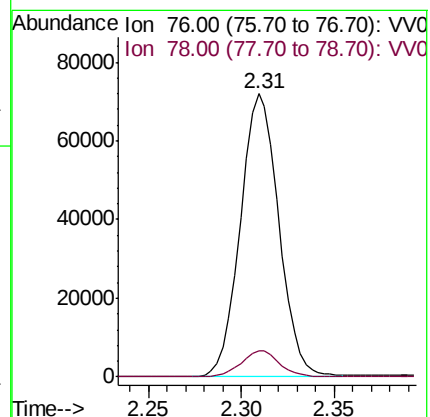
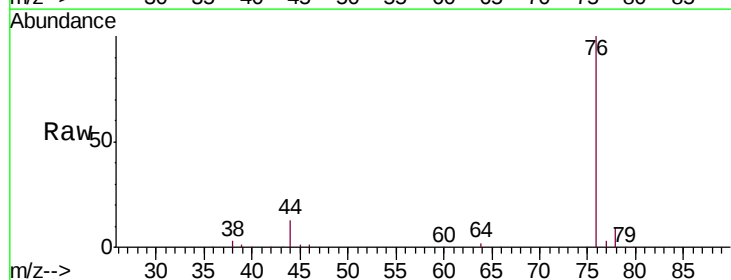
Acq: 16 May 2019 20:46

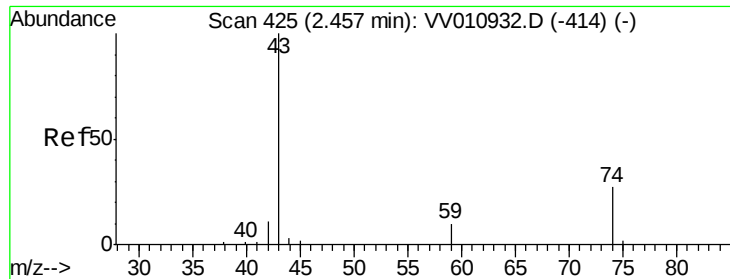
Tgt Ion: 76 Resp: 103771

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8

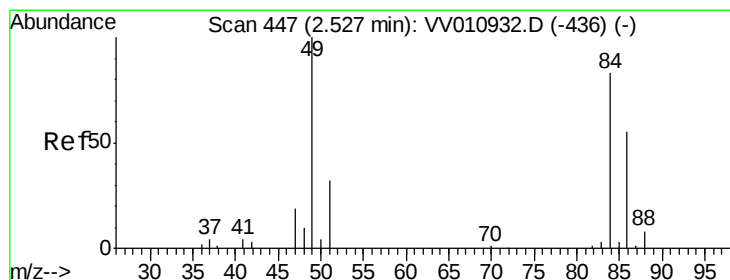
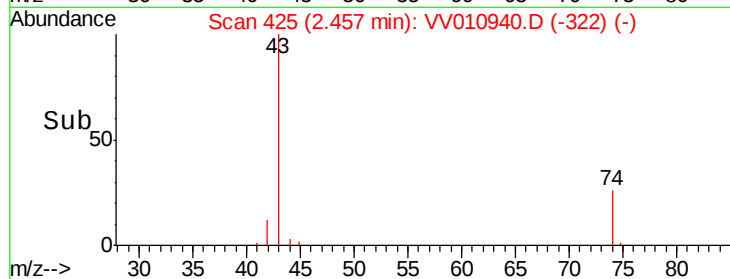
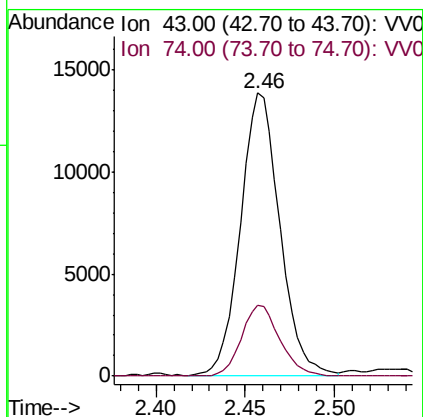
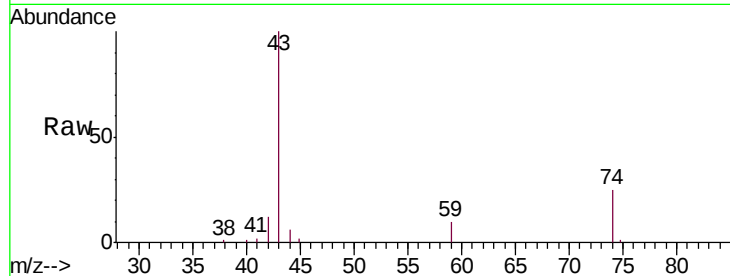




#15
Methyl Acetate
Concen: 20.560 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

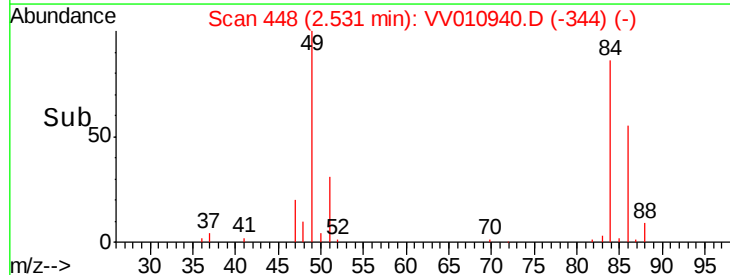
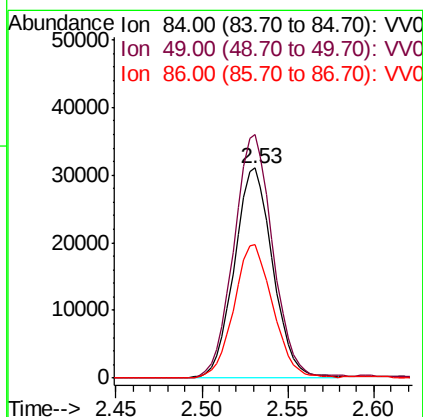
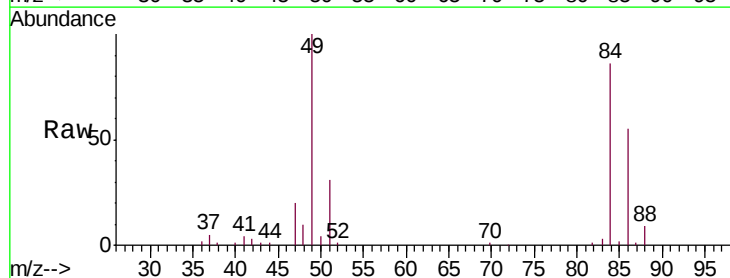
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

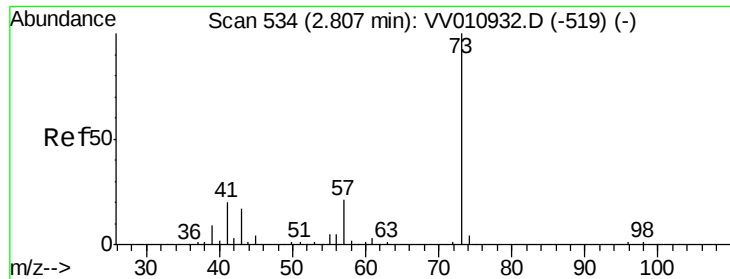
Tgt Ion: 43 Resp: 21484
Ion Ratio Lower Upper
43 100
74 24.2 18.6 27.8



#16
Methylene chloride
Concen: 24.375 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

Tgt Ion: 84 Resp: 48338
Ion Ratio Lower Upper
84 100
49 115.8 85.8 159.3
86 63.3 45.0 83.6

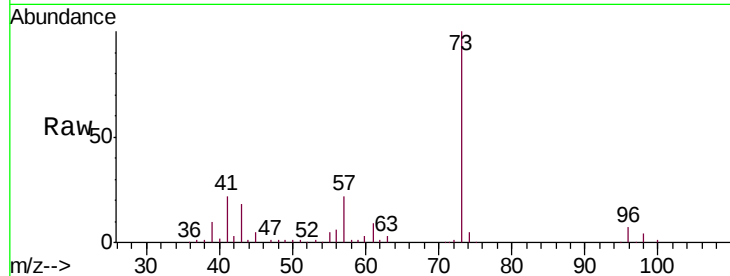




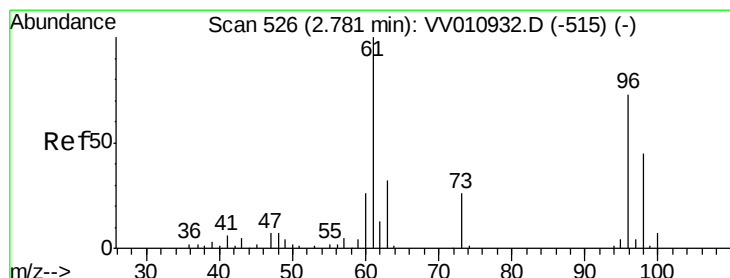
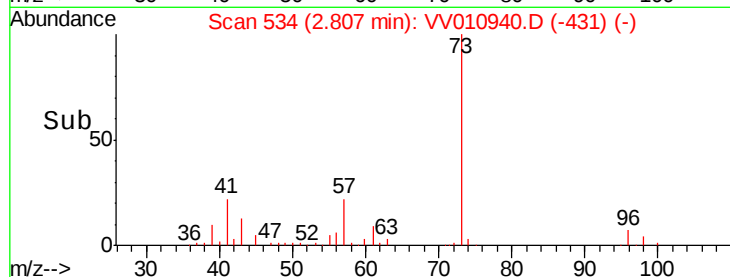
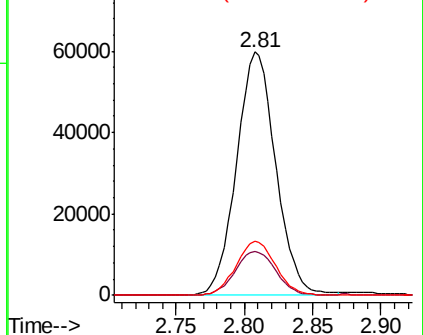
#17
Methyl tert-butyl Ether
Concen: 25.911 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Tgt Ion: 73 Resp: 119805
Ion Ratio Lower Upper
73 100
43 18.7 15.3 22.9
57 22.3 17.5 26.3

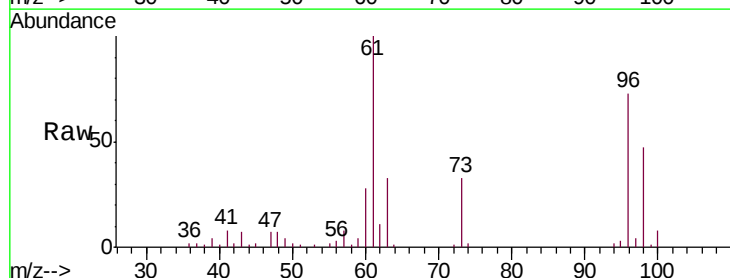


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

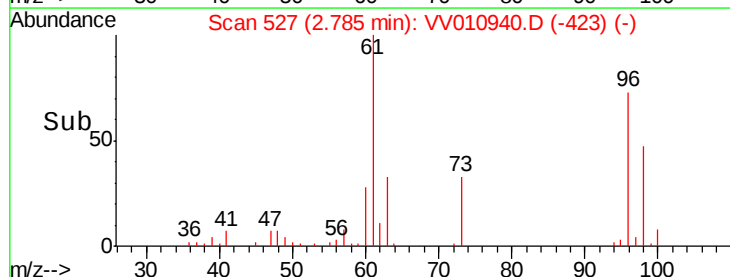
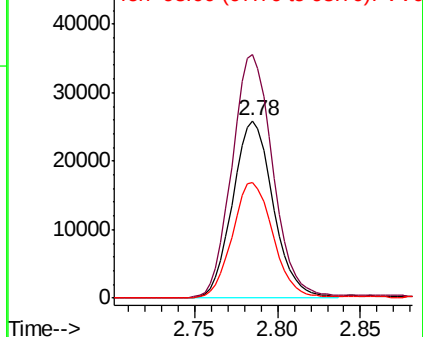


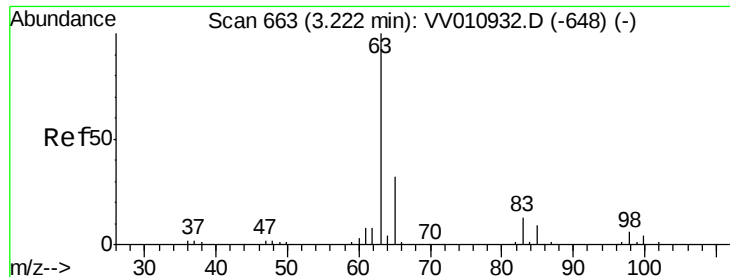
#18
trans-1,2-Dichloroethene
Concen: 26.201 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

Tgt Ion: 96 Resp: 44197
Ion Ratio Lower Upper
96 100
61 137.4 95.0 176.4
98 65.2 43.3 80.3



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





#19

1,1-Dichloroethane

Concen: 26.497 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampled :

VSTD02564

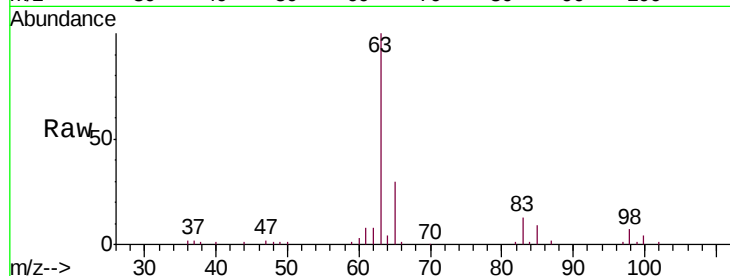
Tgt Ion: 63 Resp: 86534

Ion Ratio Lower Upper

63 100

65 30.4 22.1 41.1

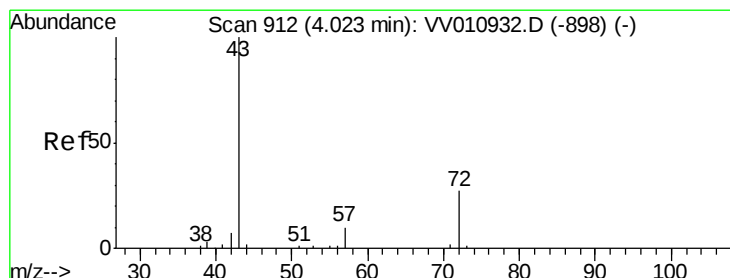
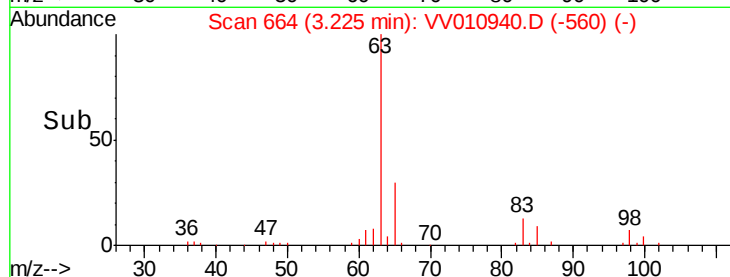
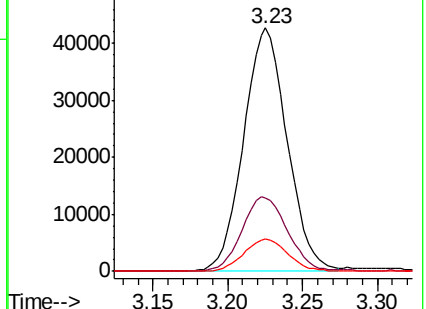
83 13.1 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VV010940.D (-560) (-)

Ion 65.00 (64.70 to 65.70): VV010940.D (-560) (-)

Ion 83.00 (82.70 to 83.70): VV010940.D (-560) (-)



#21

2-Butanone

Concen: 53.893 ug/L

RT: 4.02 min Scan# 912

Delta R.T. 0.00 min

Lab File: VV010940.D

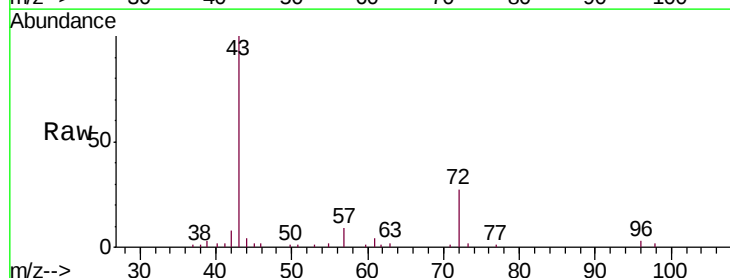
Acq: 16 May 2019 20:46

Tgt Ion: 43 Resp: 34901

Ion Ratio Lower Upper

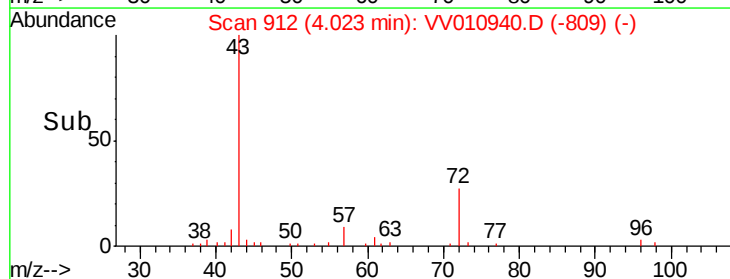
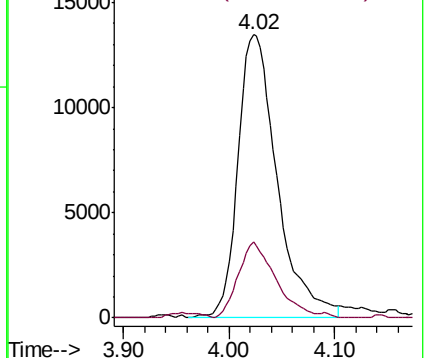
43 100

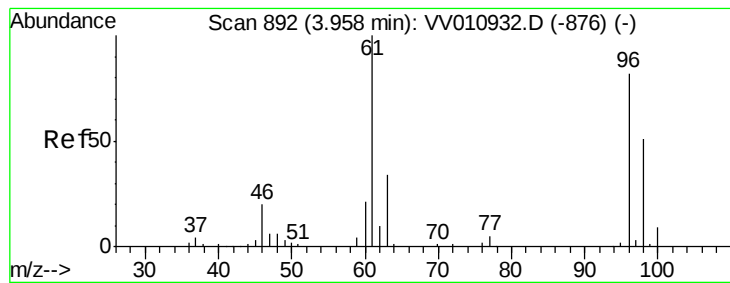
72 25.5 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VV010940.D (-809) (-)

Ion 72.00 (71.70 to 72.70): VV010940.D (-809) (-)



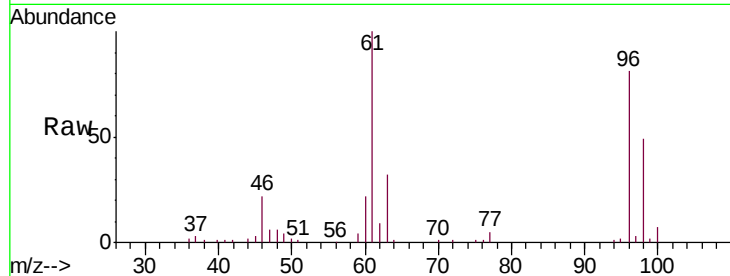


#22

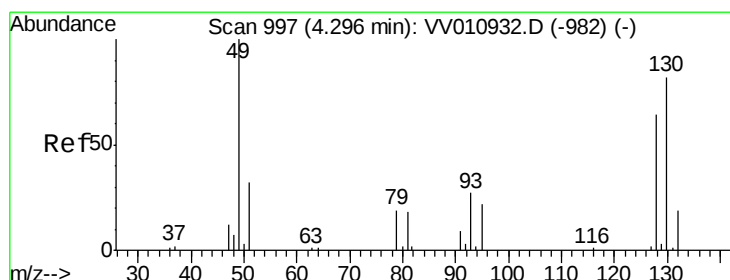
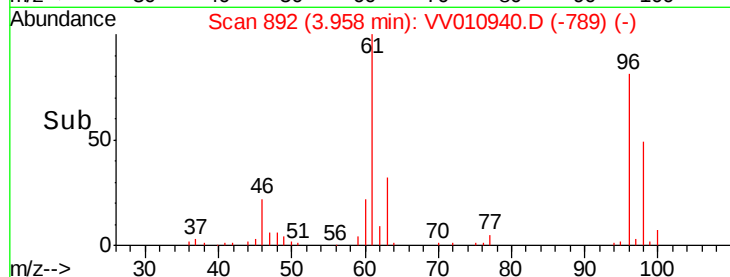
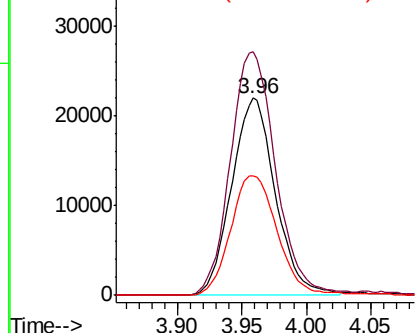
cis-1,2-Dichloroethene
 Concen: 26.337 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

Tgt Ion: 96 Resp: 51989
 Ion Ratio Lower Upper
 96 100
 61 123.5 90.2 167.6
 98 60.9 44.2 82.0



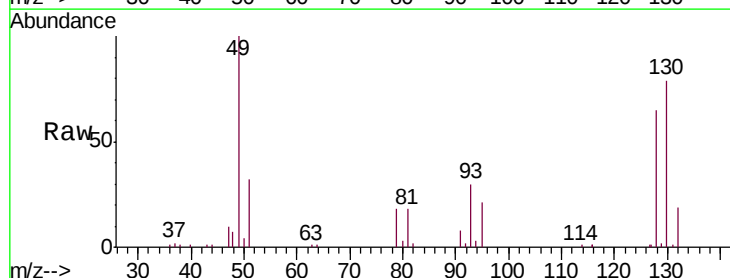
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



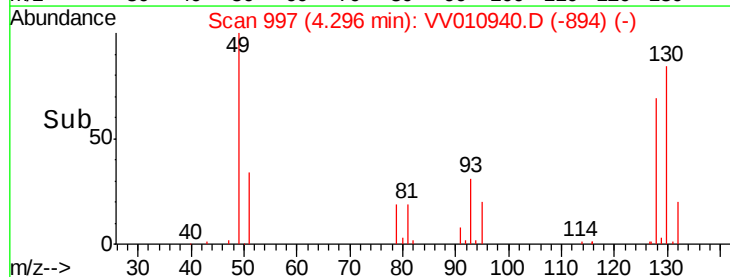
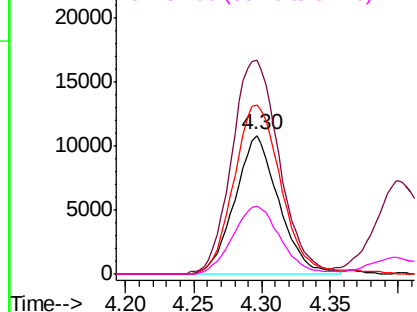
#23

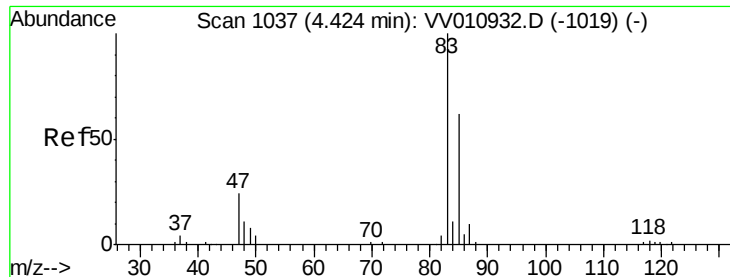
Bromochloromethane
 Concen: 26.352 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Tgt Ion: 128 Resp: 24232
 Ion Ratio Lower Upper
 128 100
 49 154.5 117.8 218.8
 130 122.5 88.4 164.2
 51 48.9 40.6 60.8



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

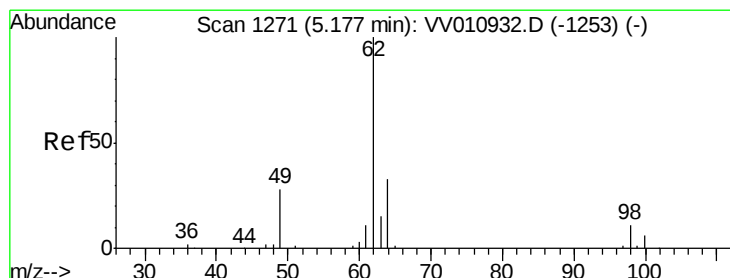
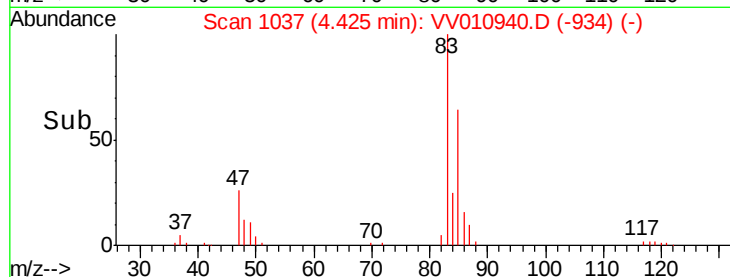
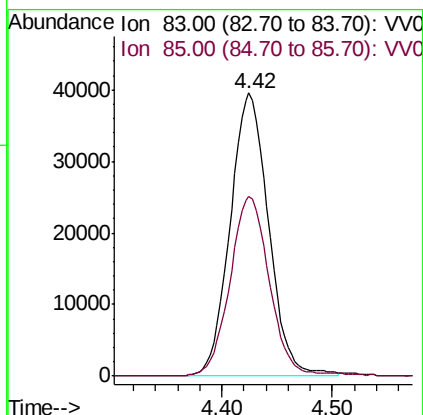
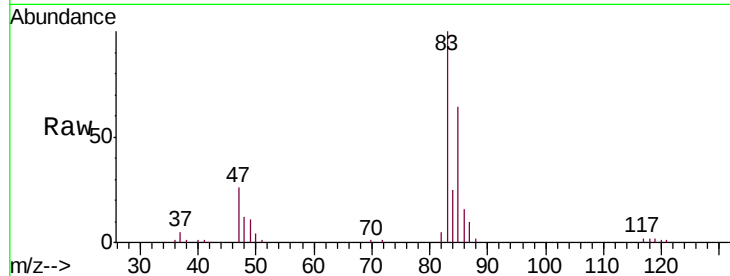




#25
Chloroform
Concen: 26.929 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

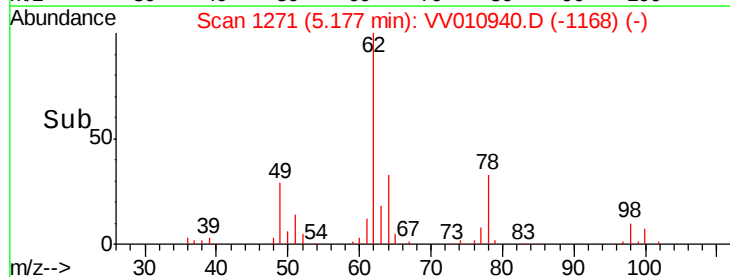
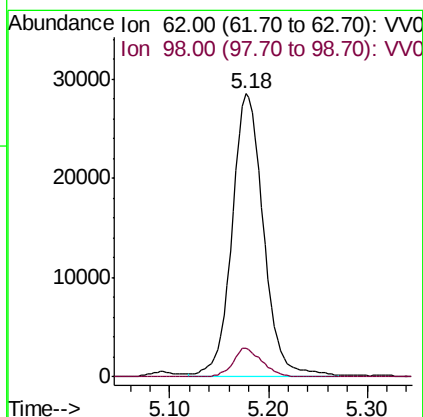
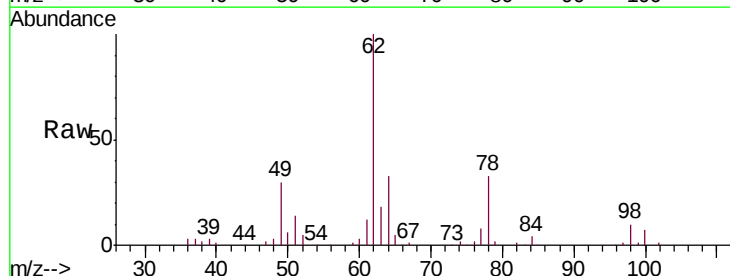
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

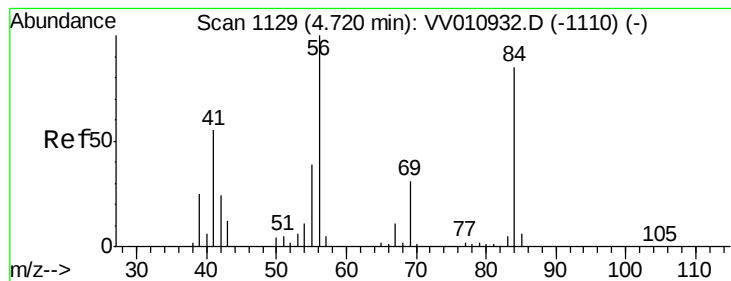
Tgt Ion: 83 Resp: 95400
Ion Ratio Lower Upper
83 100
85 64.8 45.3 84.1



#27
1,2-Dichloroethane
Concen: 25.771 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

Tgt Ion: 62 Resp: 63700
Ion Ratio Lower Upper
62 100
98 10.3 7.0 10.4





#30

Cyclohexane

Concen: 28.206 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

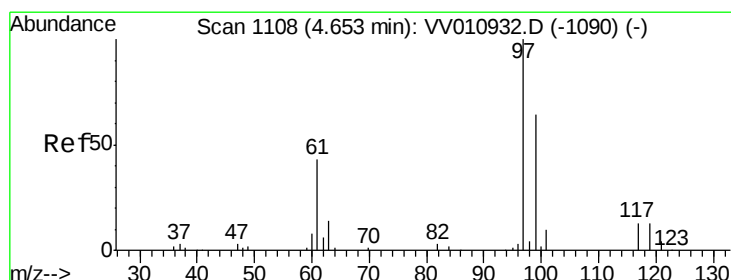
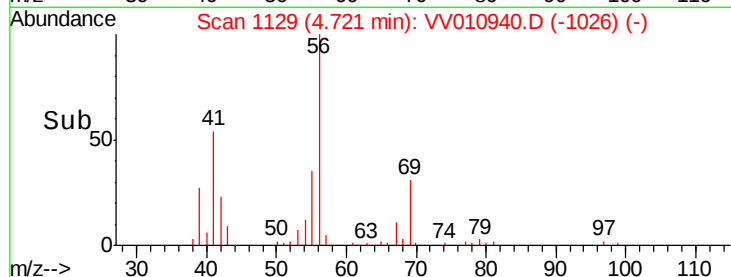
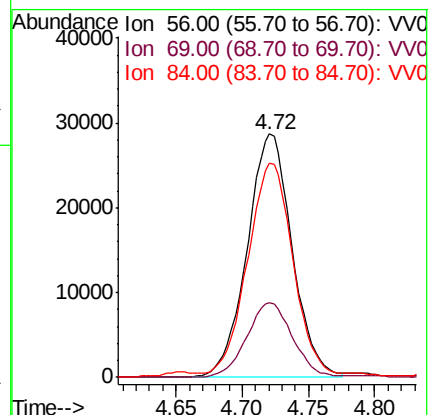
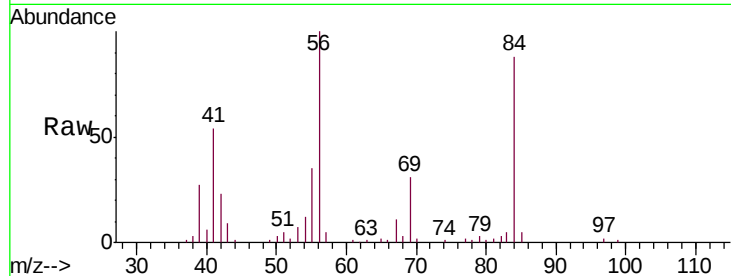
Tgt Ion: 56 Resp: 67752

Ion Ratio Lower Upper

56 100

69 31.2 25.2 37.8

84 87.0 69.0 103.4



#31

1,1,1-Trichloroethane

Concen: 27.104 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

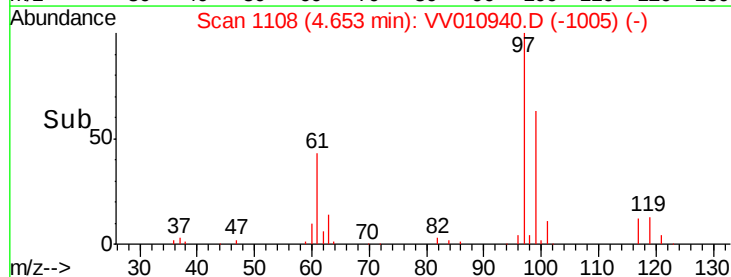
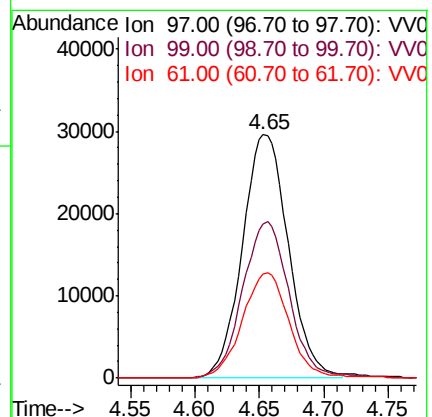
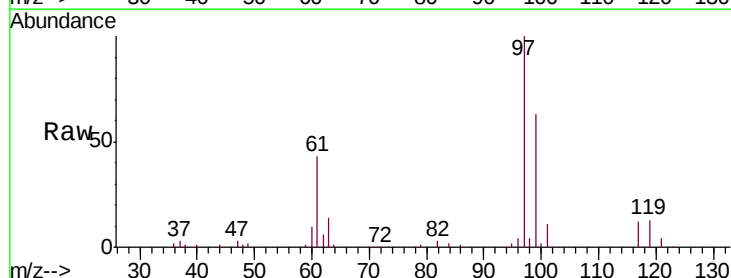
Tgt Ion: 97 Resp: 73551

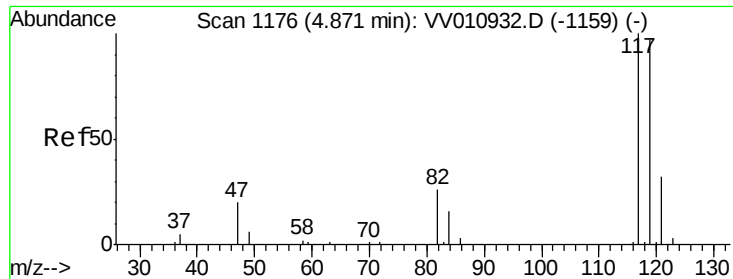
Ion Ratio Lower Upper

97 100

99 65.2 49.4 74.2

61 43.9 34.6 51.8





#32

Carbon tetrachloride

Concen: 28.266 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

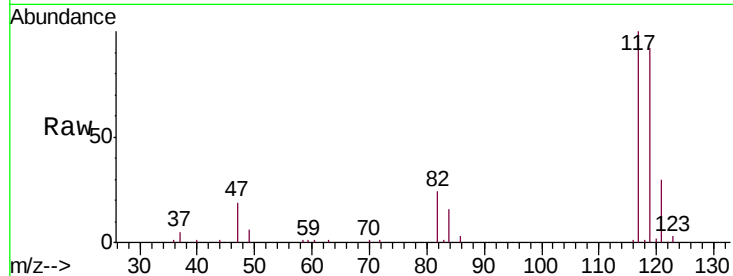
VSTD02564

Tgt Ion:117 Resp: 65456

Ion Ratio Lower Upper

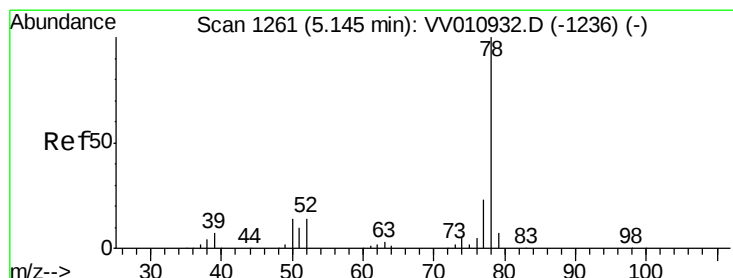
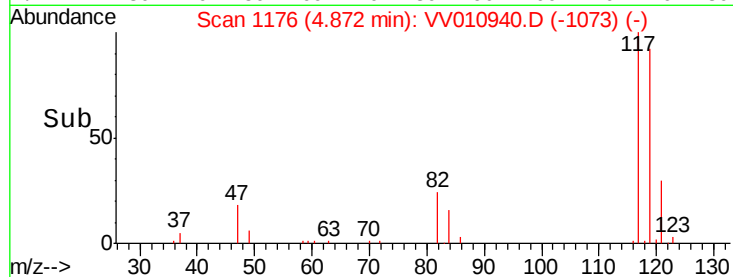
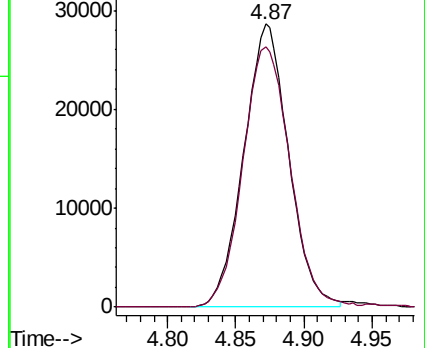
117 100

119 96.5 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: 27.227 ug/L

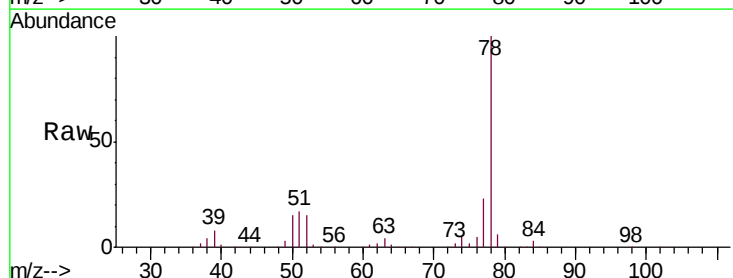
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

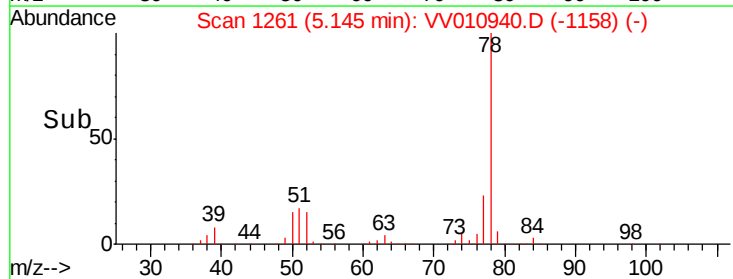
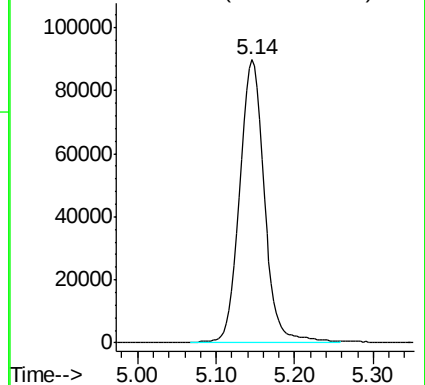
Lab File: VV010940.D

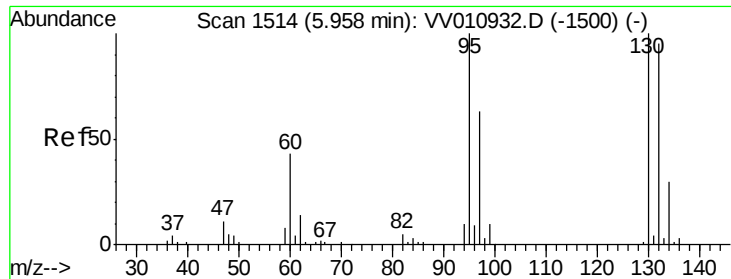
Acq: 16 May 2019 20:46

Tgt Ion: 78 Resp: 198268



Abundance Ion 78.00 (77.70 to 78.70): VV0

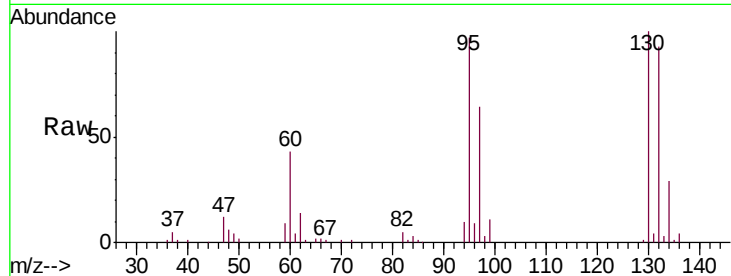




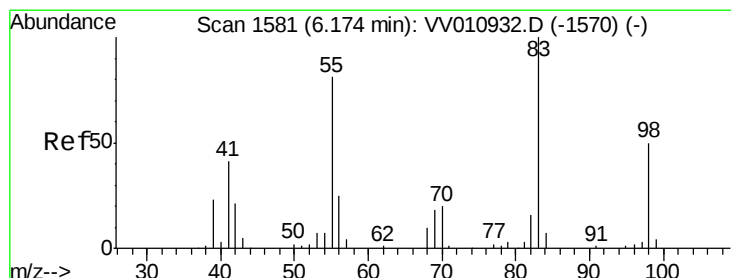
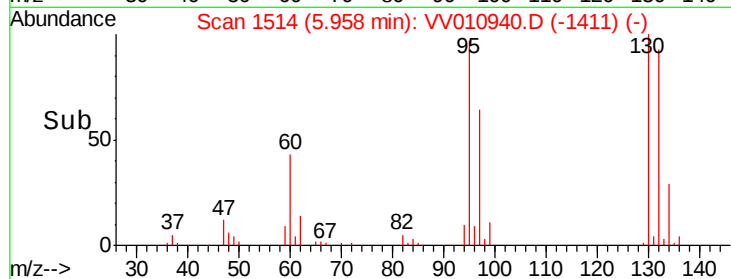
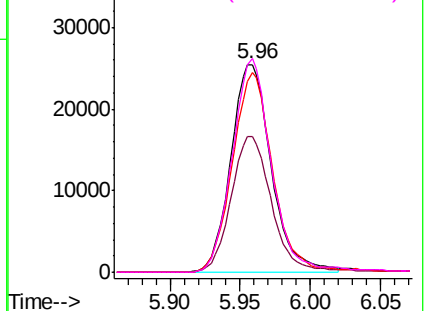
#35
 Trichloroethene
 Concen: 27.124 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

Tgt Ion: 95 Resp: 51193
 Ion Ratio Lower Upper
 95 100
 97 65.6 46.0 85.4
 132 95.2 67.4 125.2
 130 98.3 68.5 127.1

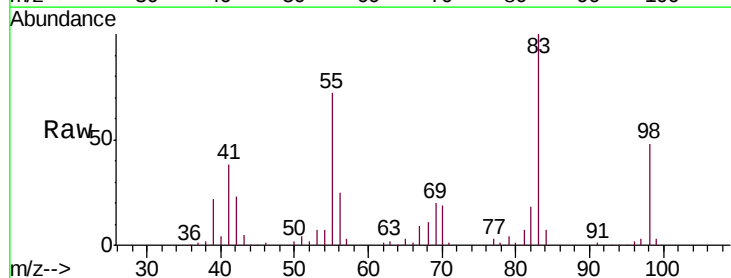


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

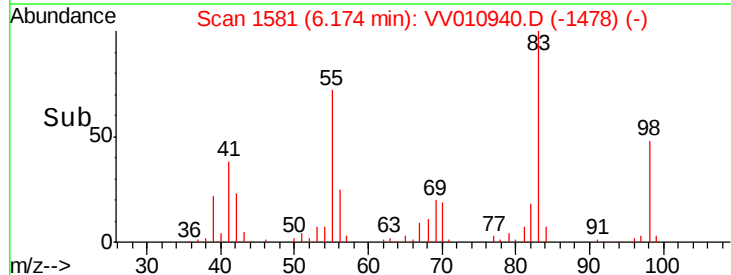
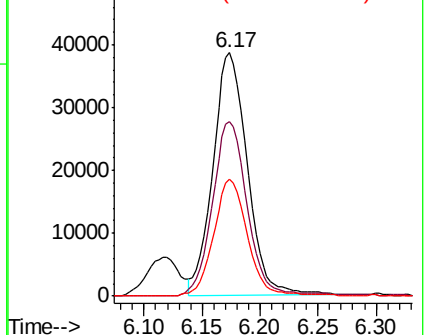


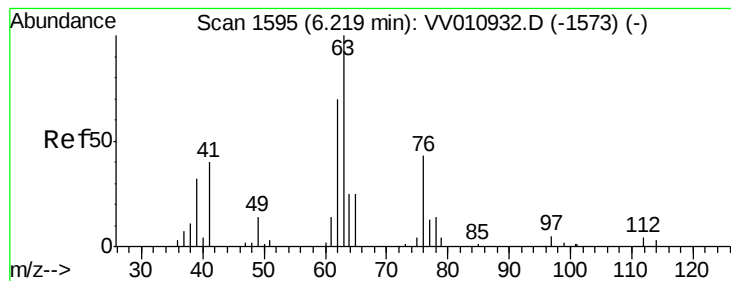
#36
 Methylcyclohexane
 Concen: 30.275 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Tgt Ion: 83 Resp: 79517
 Ion Ratio Lower Upper
 83 100
 55 73.0 61.0 91.4
 98 46.7 37.2 55.8



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 27.216 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

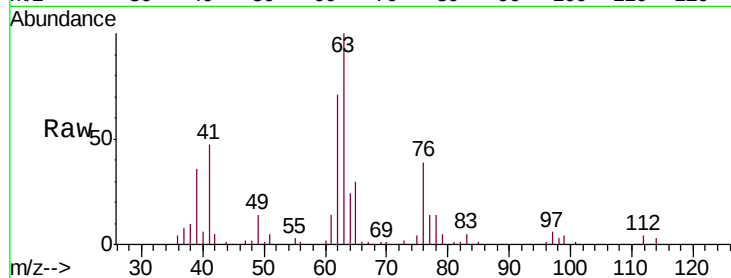
VSTD02564

Tgt Ion: 63 Resp: 53981

Ion Ratio Lower Upper

63 100

112 3.4 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VV010940.D (-1595) (-)

Ion 112.00 (111.70 to 112.70): VV010940.D (-1595) (-)

6.22

30000

25000

20000

15000

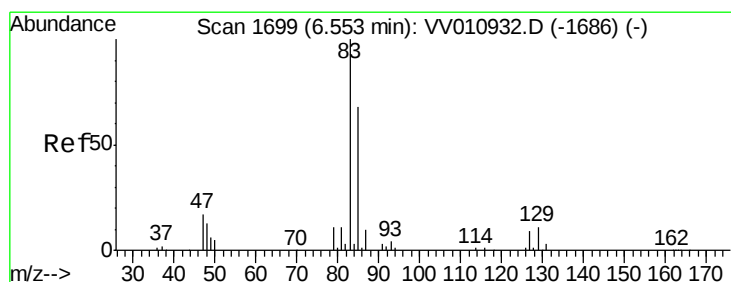
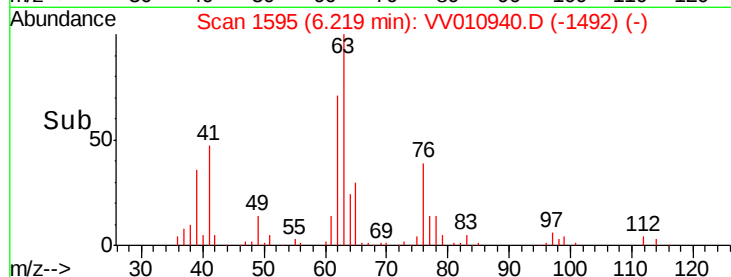
10000

5000

0

6.15 6.20 6.25 6.30

Time-->



#41

Bromodichloromethane

Concen: 26.514 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

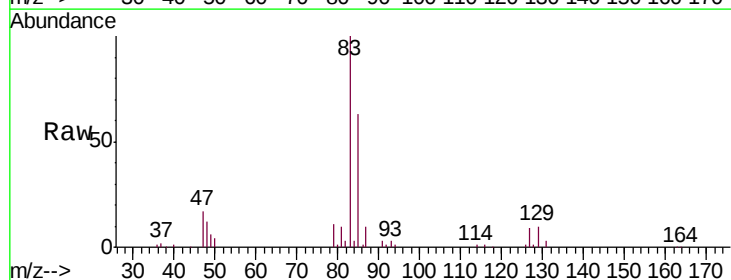
Tgt Ion: 83 Resp: 67434

Ion Ratio Lower Upper

83 100

85 63.5 45.3 84.1

127 9.0 7.4 11.2



Abundance Ion 83.00 (82.70 to 83.70): VV010940.D (-1700) (-)

Ion 85.00 (84.70 to 85.70): VV010940.D (-1700) (-)

Ion 127.00 (126.70 to 127.70): VV010940.D (-1700) (-)

6.56

50000

40000

30000

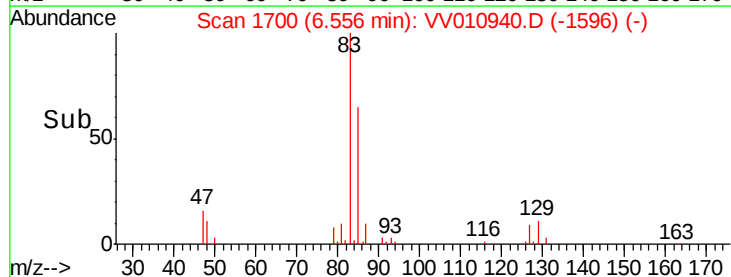
20000

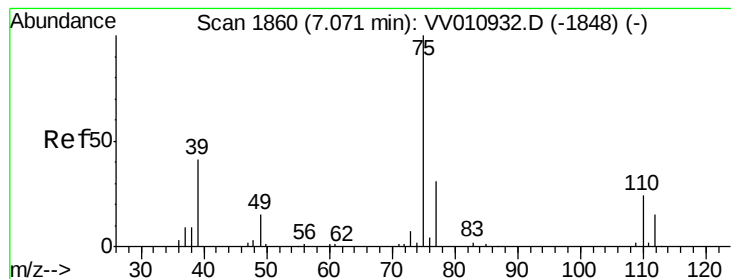
10000

0

6.45 6.50 6.55 6.60 6.65

Time-->



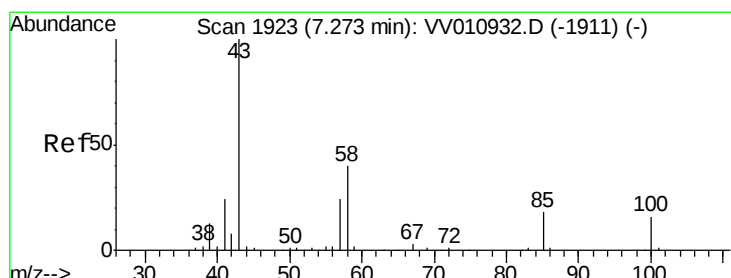
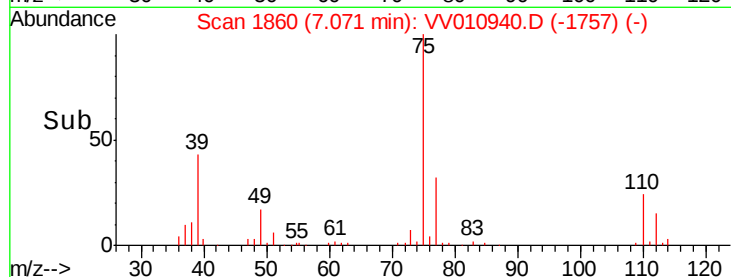
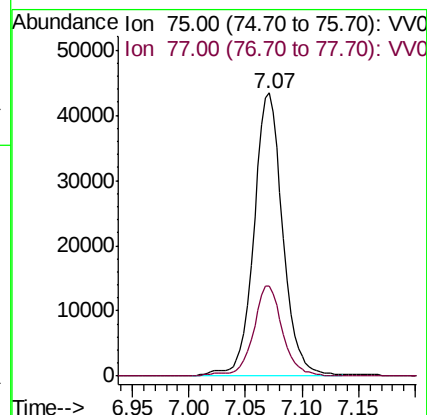
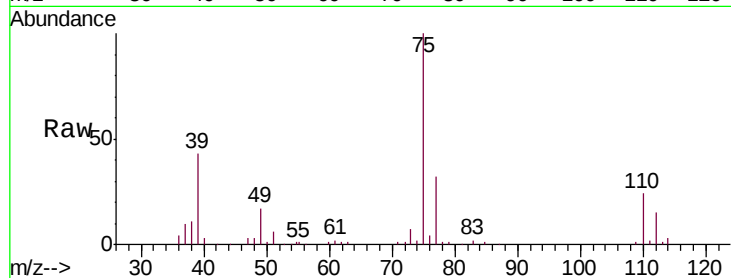


#42

cis-1,3-Dichloropropene
 Concen: 26.690 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

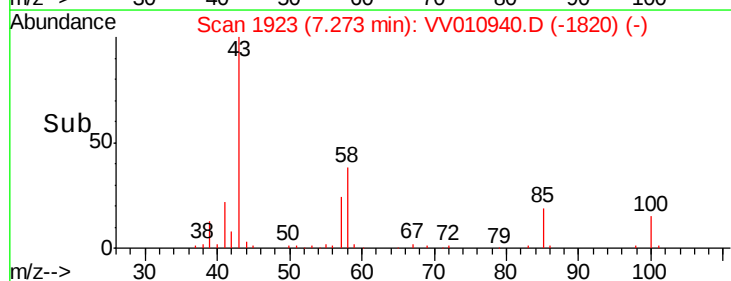
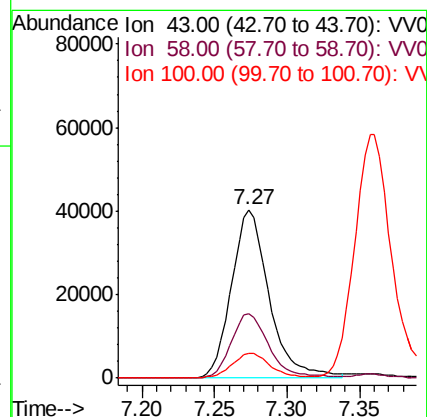
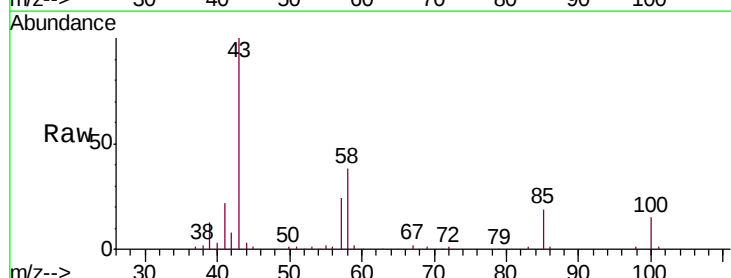
Tgt Ion: 75 Resp: 77231
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.5 39.9

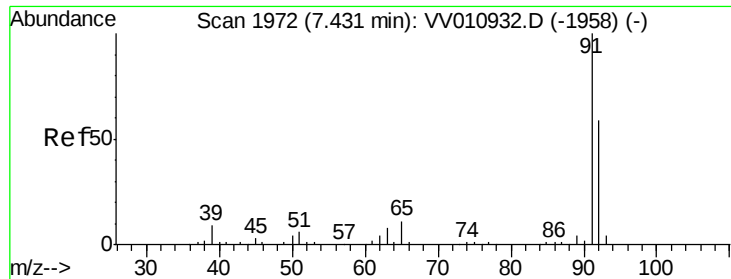


#43

4-Methyl-2-pentanone
 Concen: 52.067 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Tgt Ion: 43 Resp: 72932
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.0 45.0
 100 15.2 11.2 16.8





#44

Toluene

Concen: 27.905 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

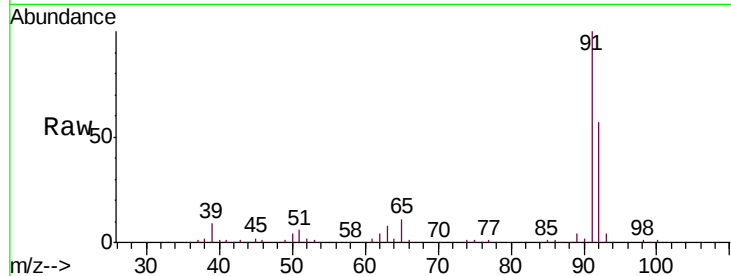
VSTD02564

Tgt Ion: 91 Resp: 225879

Ion Ratio Lower Upper

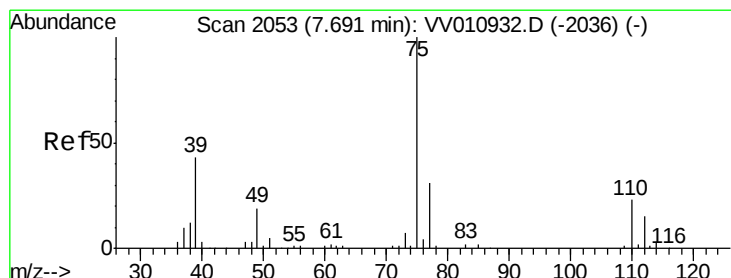
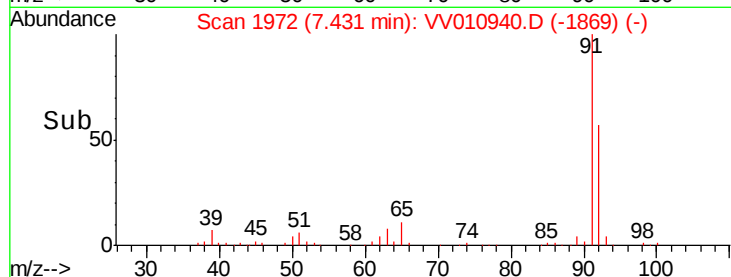
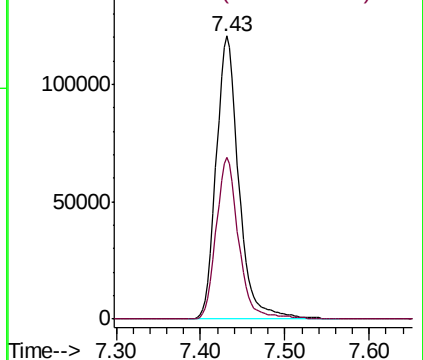
91 100

92 57.0 39.1 72.7



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#45

trans-1,3-Dichloropropene

Concen: 26.457 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010940.D

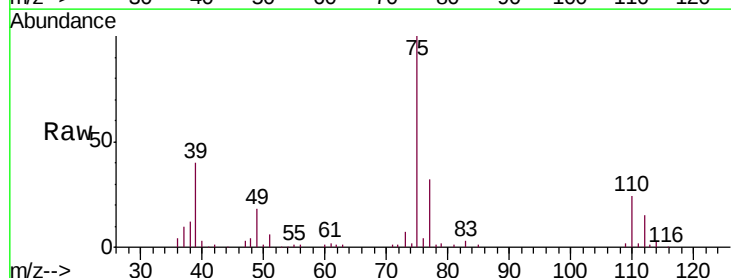
Acq: 16 May 2019 20:46

Tgt Ion: 75 Resp: 64701

Ion Ratio Lower Upper

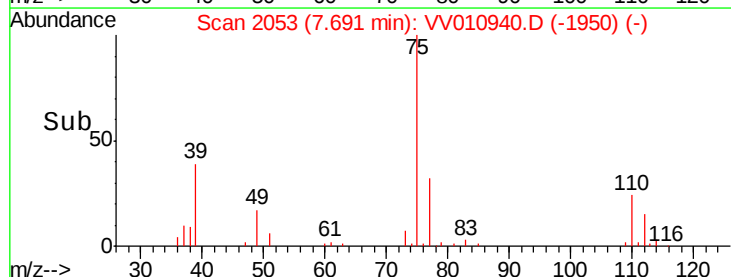
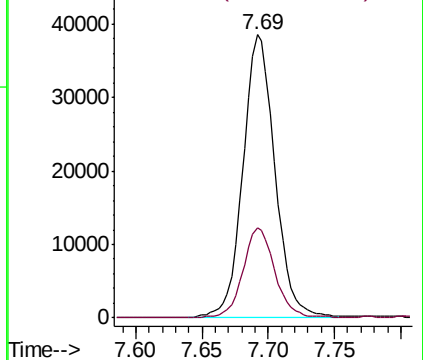
75 100

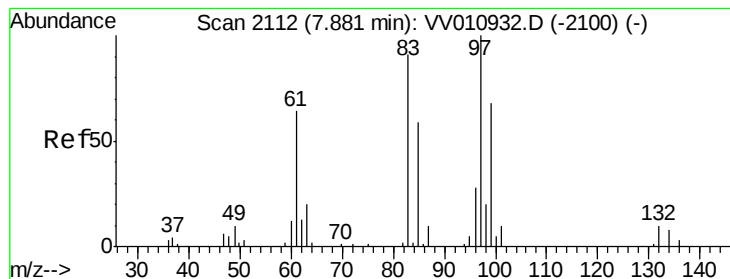
77 31.7 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#46

1,1,2-Trichloroethane

Concen: 26.752 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

Tgt Ion: 97 Resp: 42732

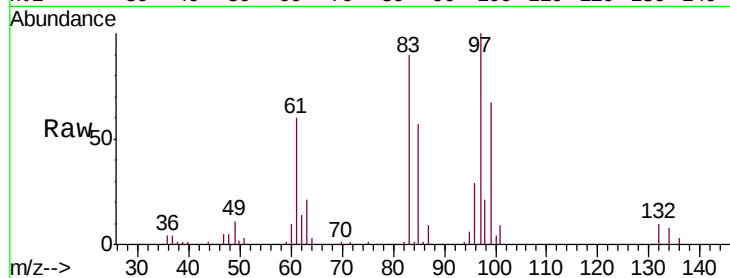
Ion Ratio Lower Upper

97 100

83 89.7 57.2 106.2

85 57.3 37.4 69.4

99 67.3 42.0 78.0



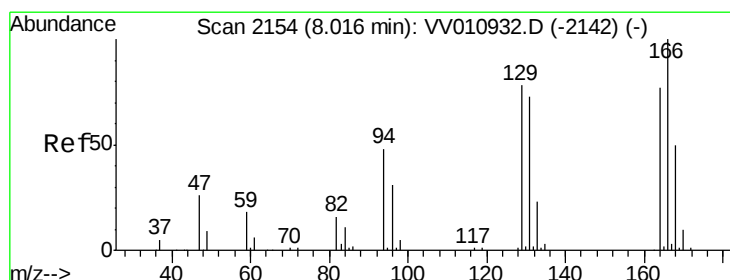
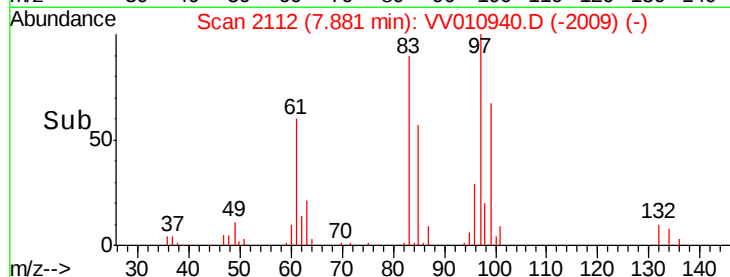
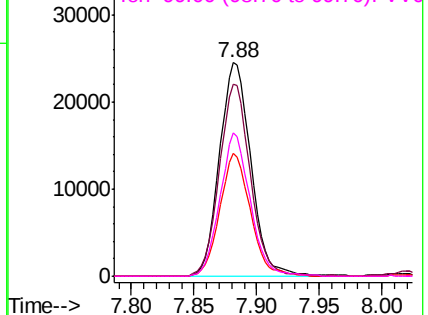
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 27.502 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Tgt Ion: 164 Resp: 38354

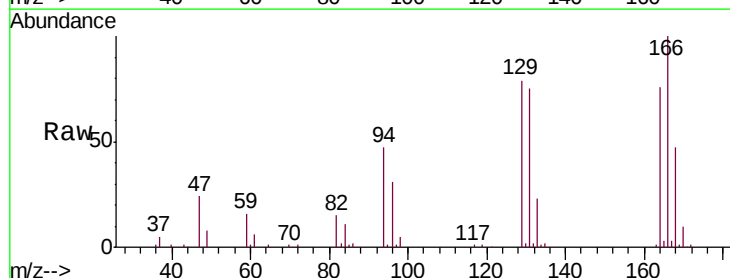
Ion Ratio Lower Upper

164 100

129 103.7 67.6 125.6

131 99.0 65.1 120.9

166 131.8 84.8 157.6



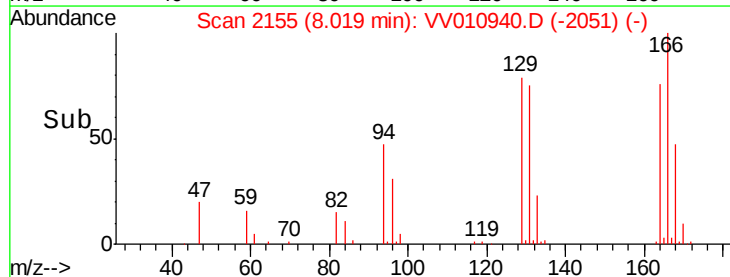
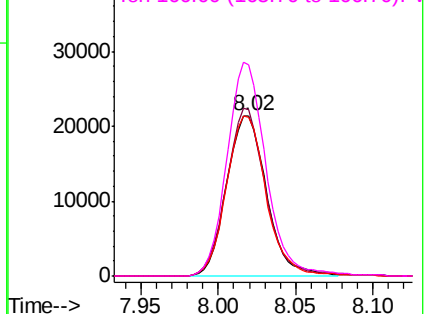
Abundance

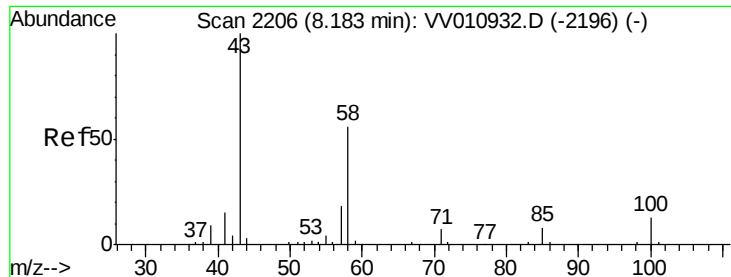
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

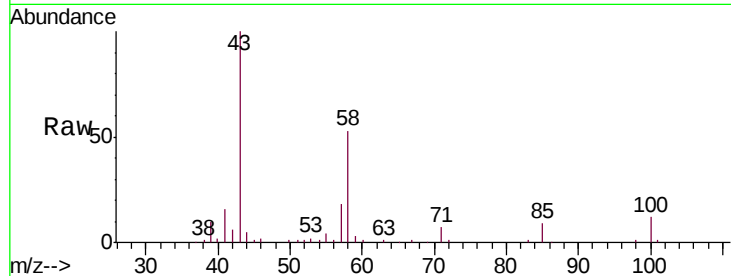




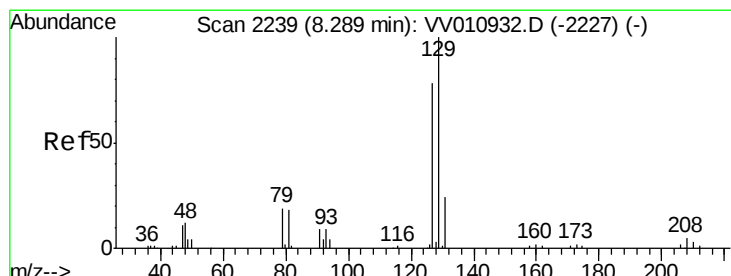
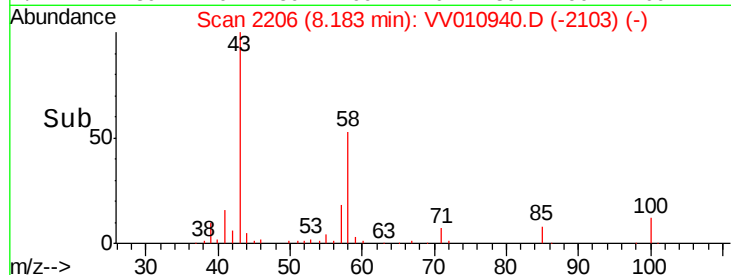
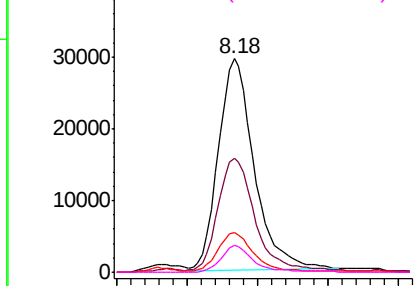
#49
2-Hexanone
Concen: 50.479 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Tgt Ion: 43 Resp: 52221
Ion Ratio Lower Upper
43 100
58 55.1 41.0 61.6
57 19.3 14.3 21.5
100 11.1 9.4 14.2

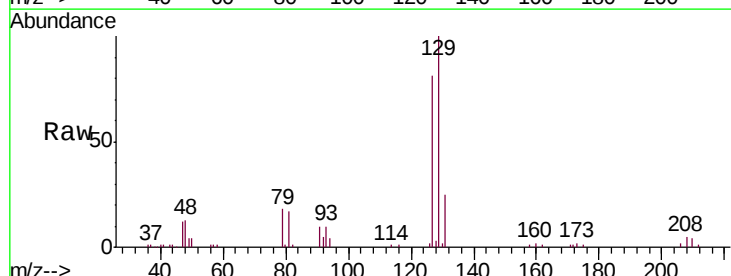


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

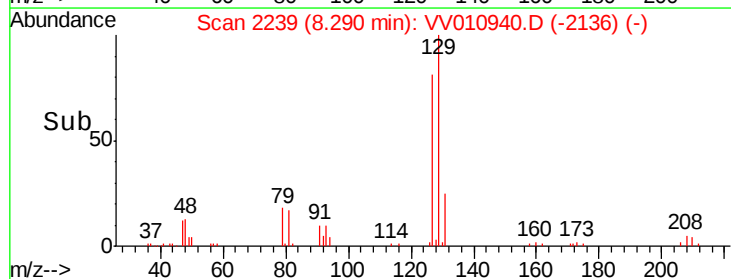
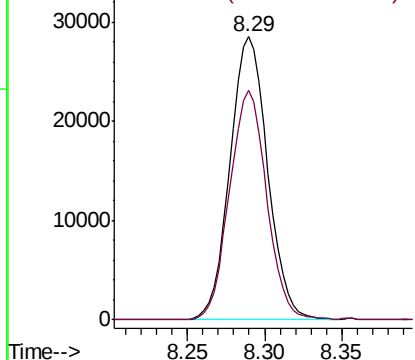


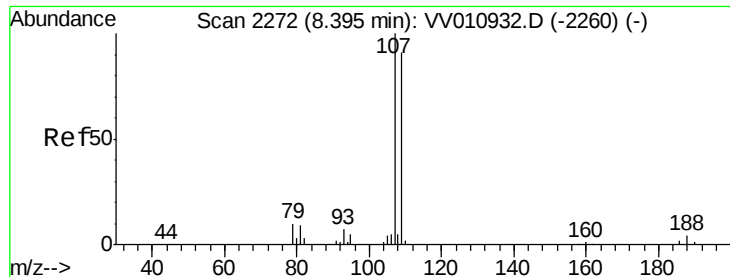
#50
Dibromochloromethane
Concen: 27.115 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

Tgt Ion: 129 Resp: 48178
Ion Ratio Lower Upper
129 100
127 81.3 53.8 100.0



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





#51

1,2-Dibromoethane

Concen: 26.892 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

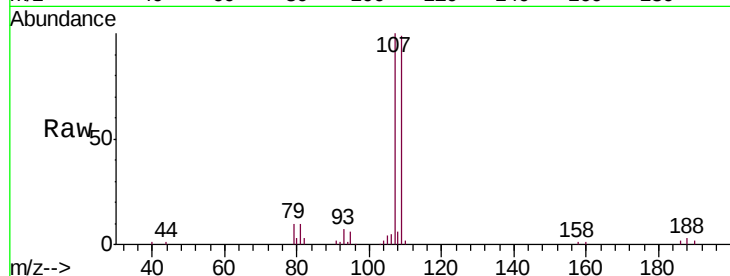
Tgt Ion:107 Resp: 40469

Ion Ratio Lower Upper

107 100

109 99.5 66.7 123.9

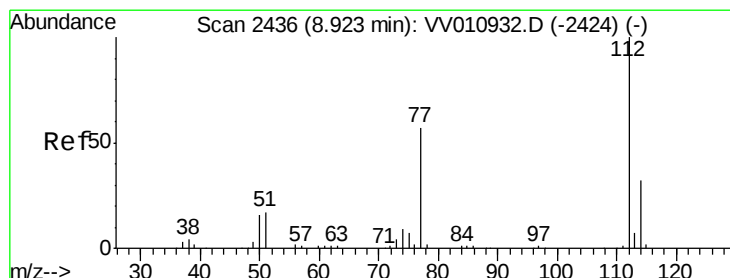
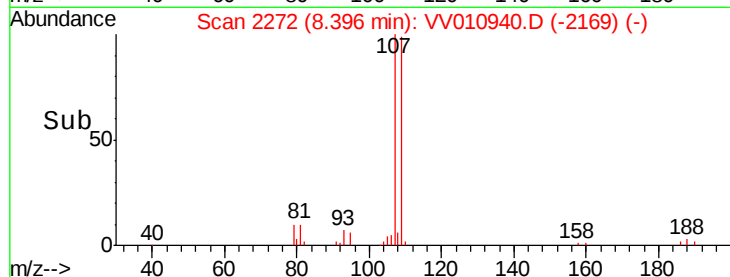
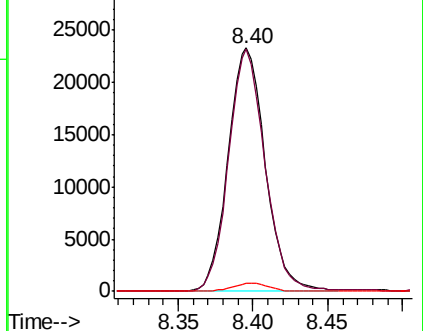
188 3.3 2.7 4.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 26.901 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

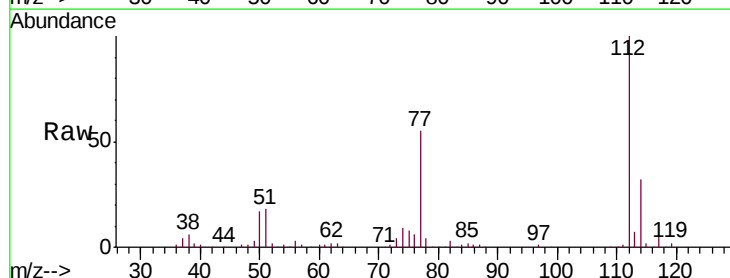
Tgt Ion:112 Resp: 148304

Ion Ratio Lower Upper

112 100

77 55.1 45.4 68.0

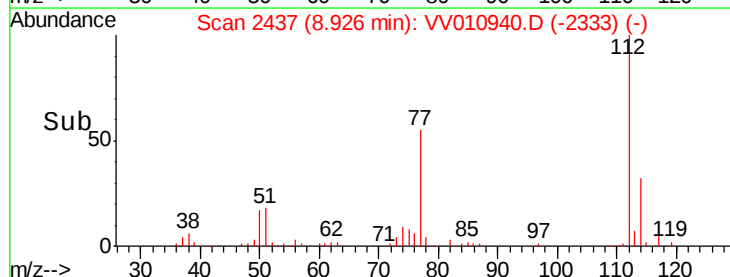
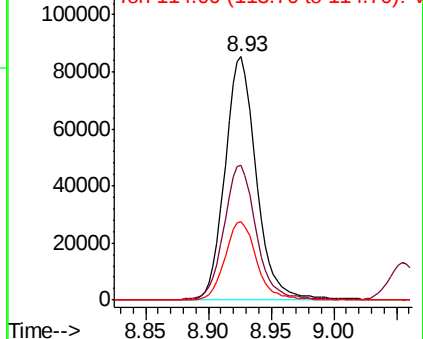
114 32.3 22.4 41.6

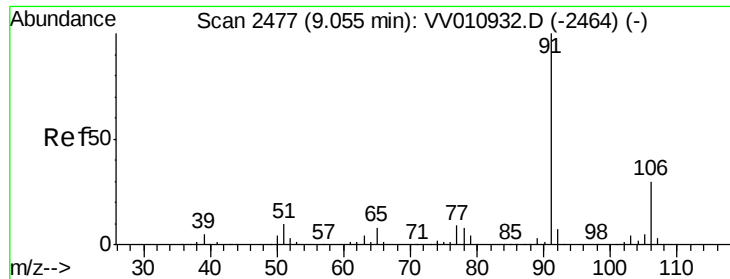


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

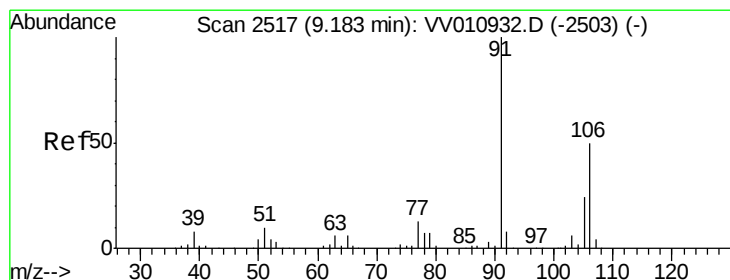
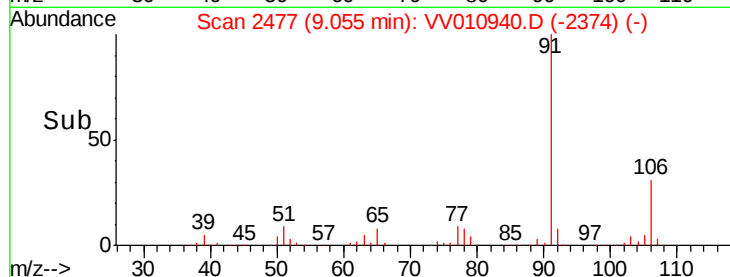
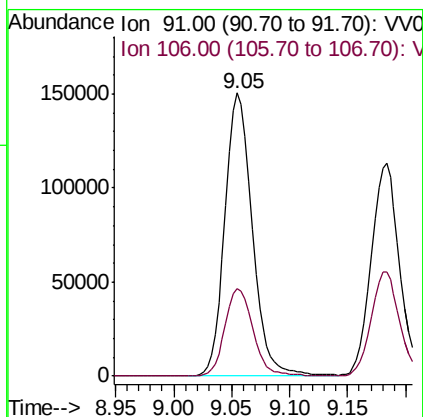
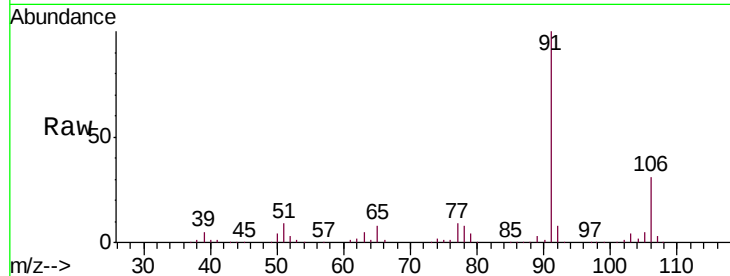




#53
Ethylbenzene
Concen: 27.852 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

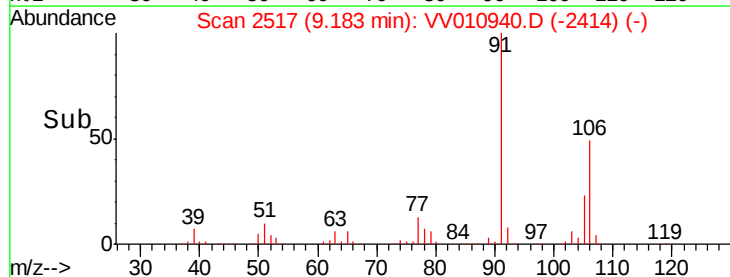
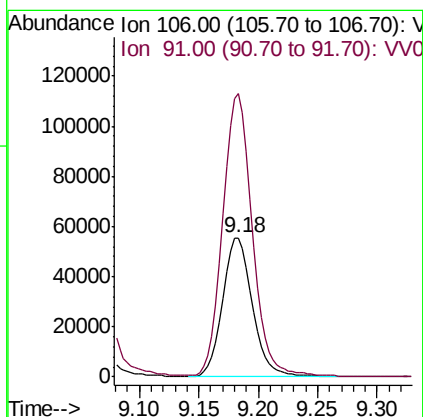
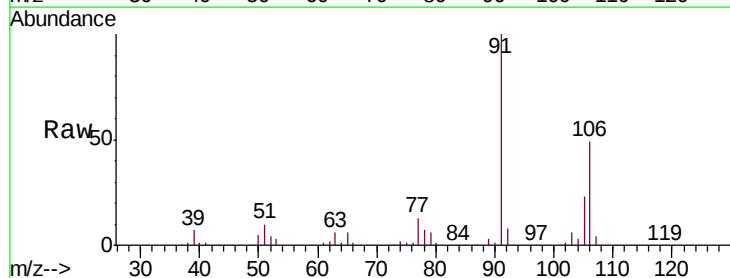
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

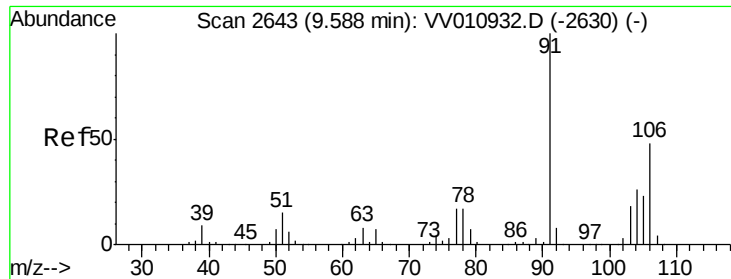
Tgt Ion: 91 Resp: 246990
Ion Ratio Lower Upper
91 100
106 30.9 21.9 40.7



#54
m,p-Xylene
Concen: 27.683 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

Tgt Ion: 106 Resp: 96726
Ion Ratio Lower Upper
106 100
91 203.5 140.6 261.0

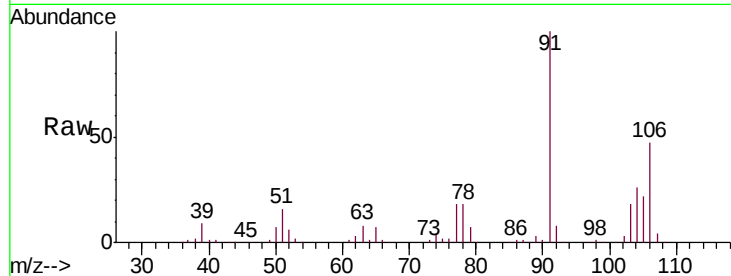




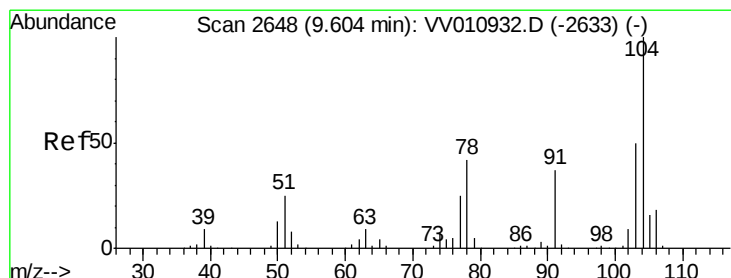
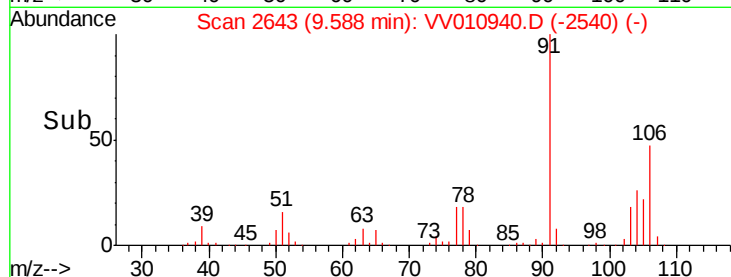
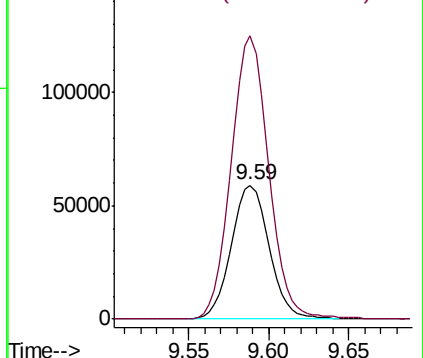
#55
o-xylene
Concen: 27.824 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Tgt Ion:106 Resp: 95516
Ion Ratio Lower Upper
106 100
91 211.0 146.9 272.9

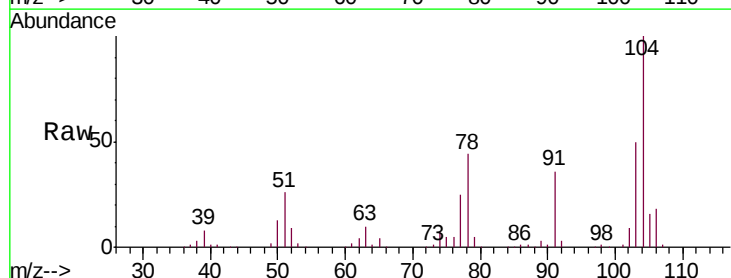


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

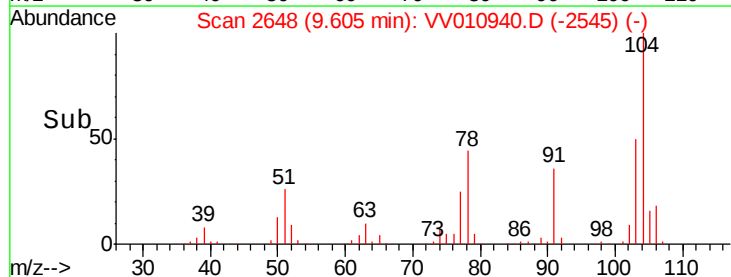
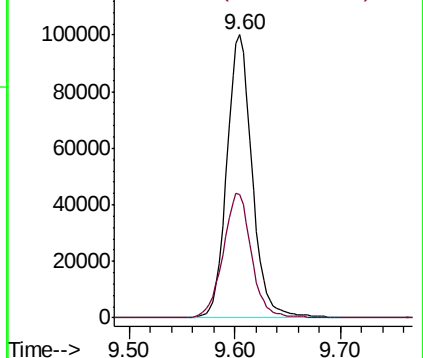


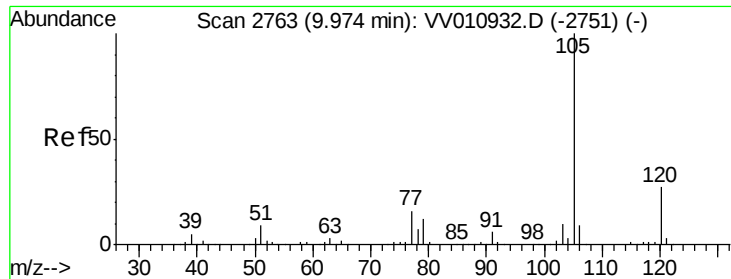
#56
Styrene
Concen: 28.319 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV010940.D
Acq: 16 May 2019 20:46

Tgt Ion:104 Resp: 166696
Ion Ratio Lower Upper
104 100
78 43.6 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: 29.005 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

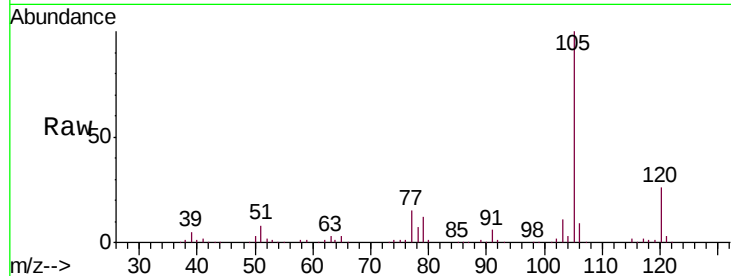
Tgt Ion: 105 Resp: 249235

Ion Ratio Lower Upper

105 100

120 26.7 21.0 31.4

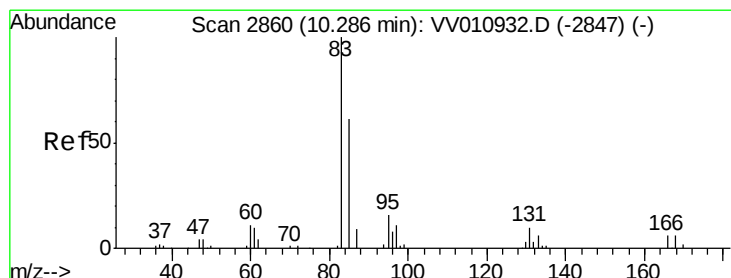
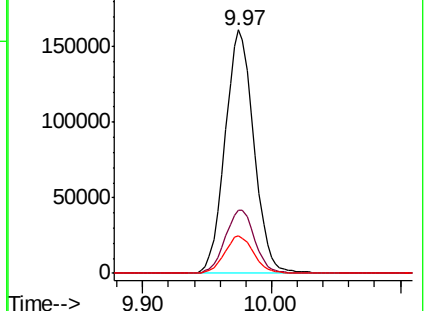
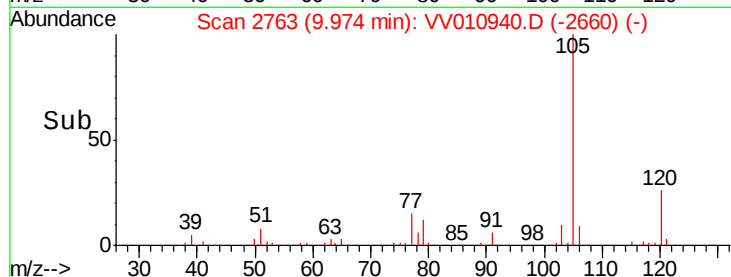
77 15.5 12.2 18.4



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: 27.375 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

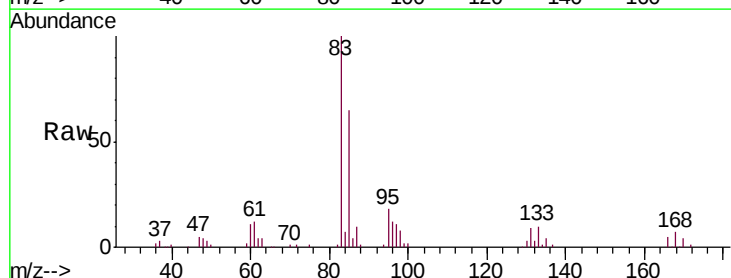
Tgt Ion: 83 Resp: 57750

Ion Ratio Lower Upper

83 100

85 64.8 46.7 86.7

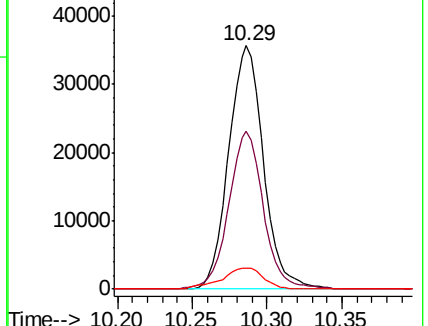
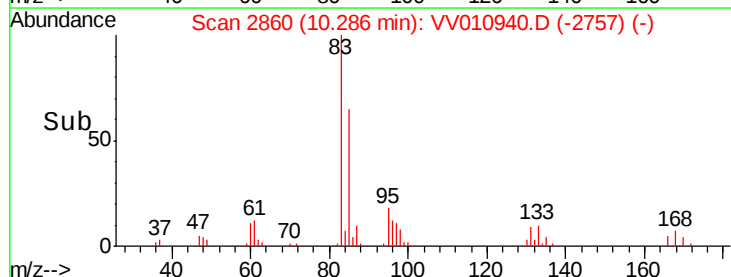
131 8.7 8.5 12.7

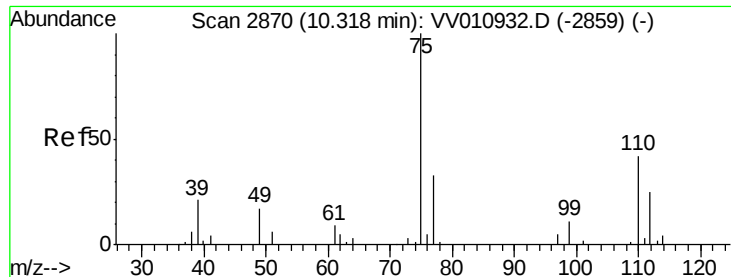


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

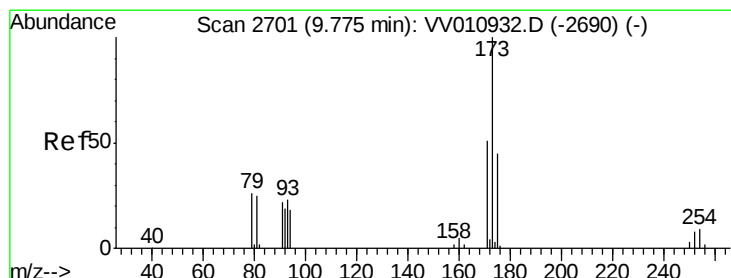
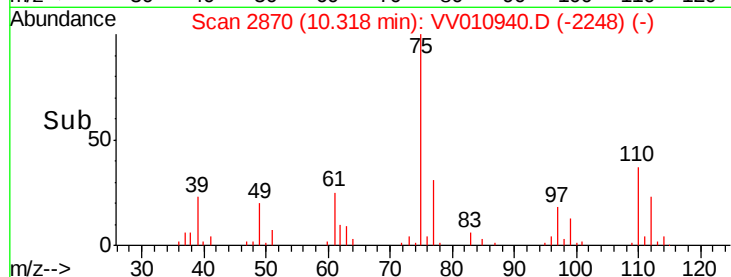
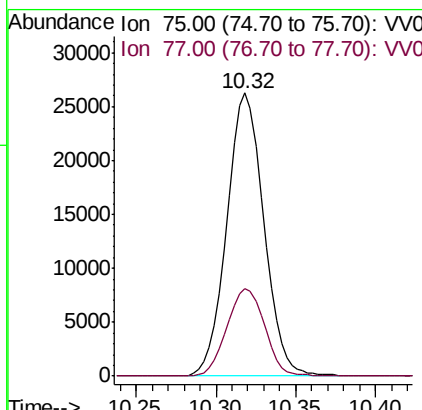
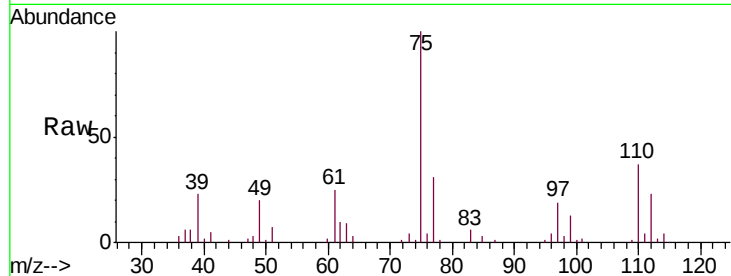




#59
 1,2,3-Trichloropropane
 Concen: 27.103 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

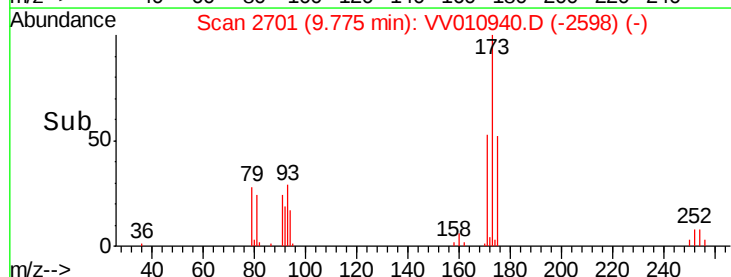
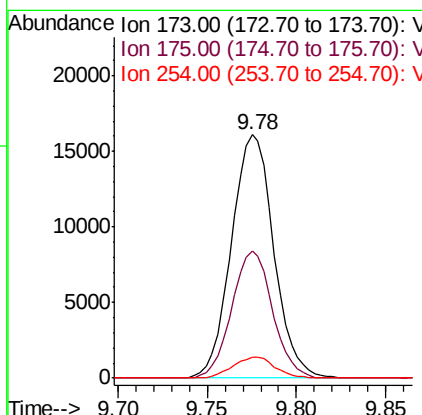
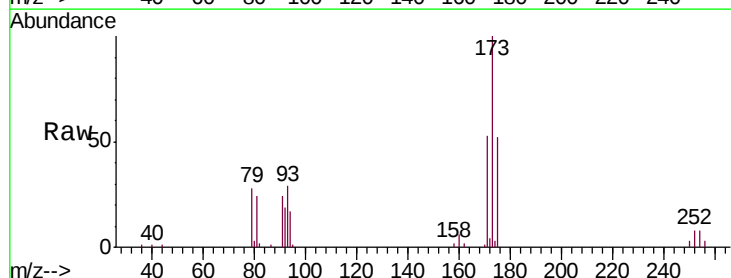
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

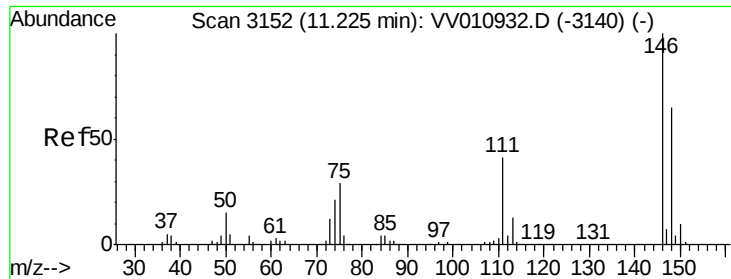
Tgt Ion: 75 Resp: 41427
 Ion Ratio Lower Upper
 75 100
 77 31.6 26.4 39.6



#62
 Bromoform
 Concen: 27.403 ug/L
 RT: 9.78 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Tgt Ion: 173 Resp: 26639
 Ion Ratio Lower Upper
 173 100
 175 50.1 38.1 57.1
 254 8.6 5.4 8.2#

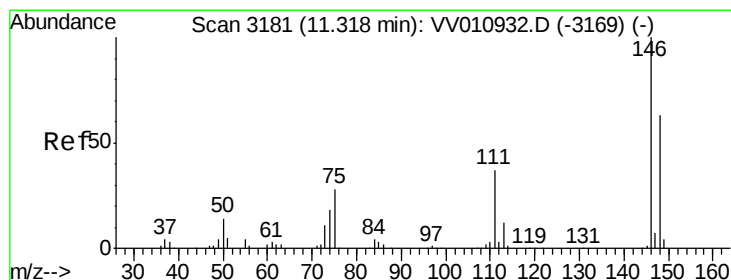
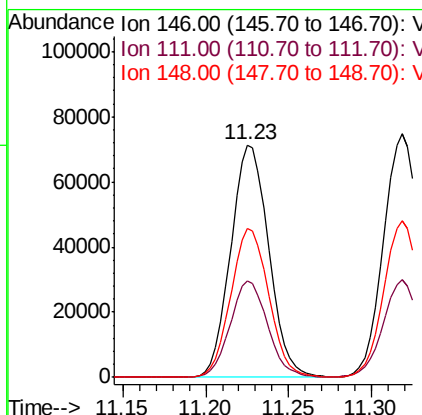
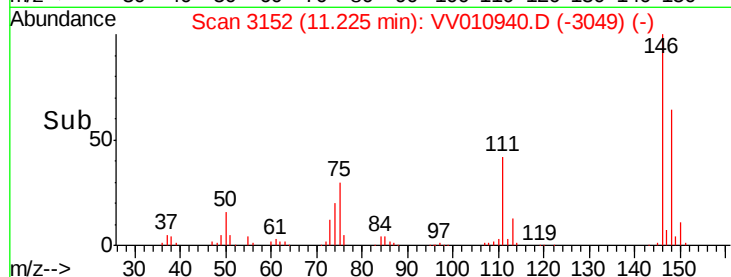
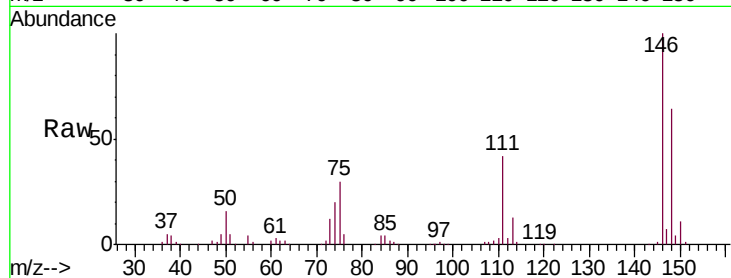




#63
 1,3-Dichlorobenzene
 Concen: 26.443 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

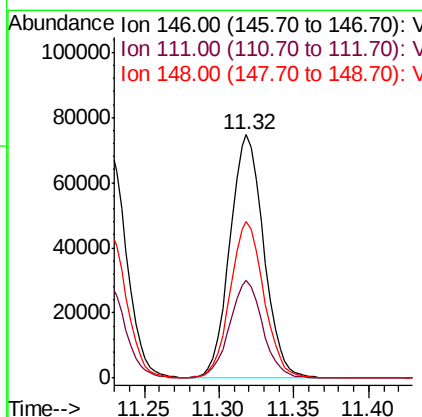
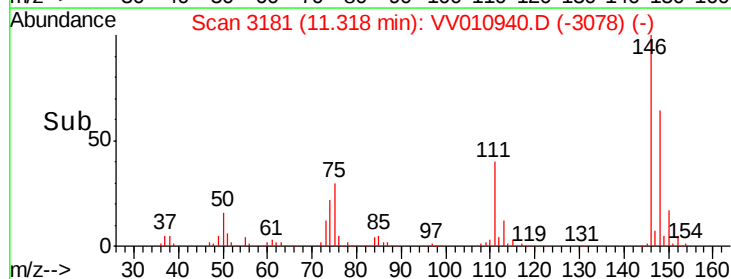
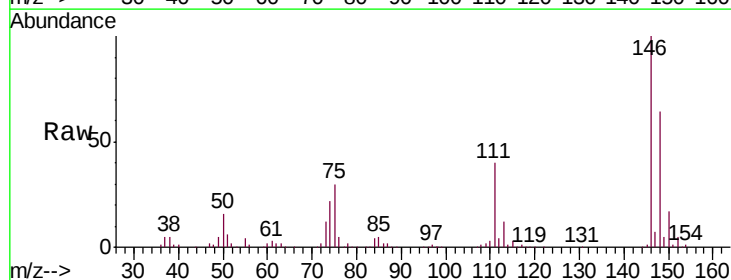
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

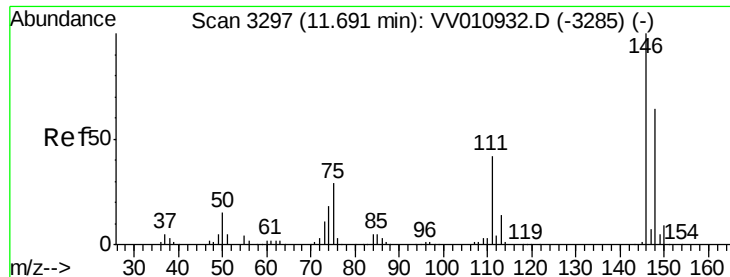
Tgt Ion:146 Resp: 113784
 Ion Ratio Lower Upper
 146 100
 111 41.7 28.1 52.1
 148 64.0 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 26.442 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Tgt Ion:146 Resp: 117872
 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: 26.466 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

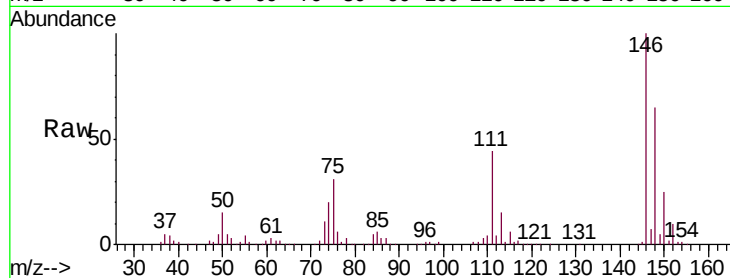
Tgt Ion:146 Resp: 113619

Ion Ratio Lower Upper

146 100

111 43.9 33.4 50.0

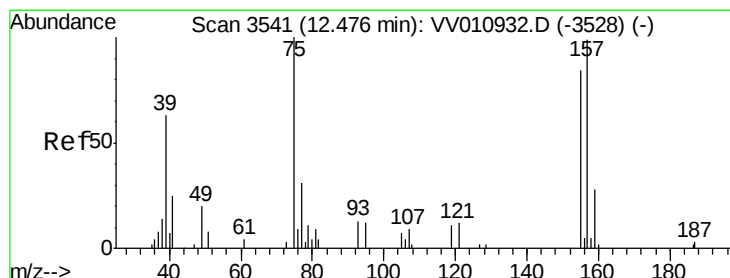
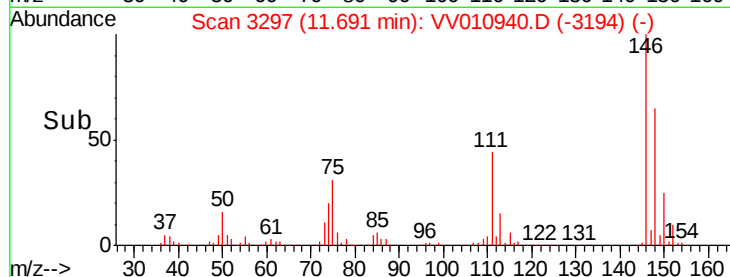
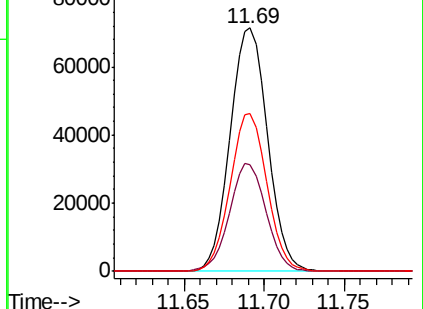
148 65.0 49.1 73.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 26.913 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

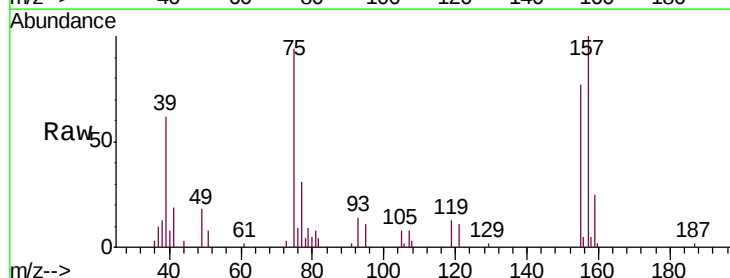
Tgt Ion: 75 Resp: 8653

Ion Ratio Lower Upper

75 100

157 106.8 97.6 146.4

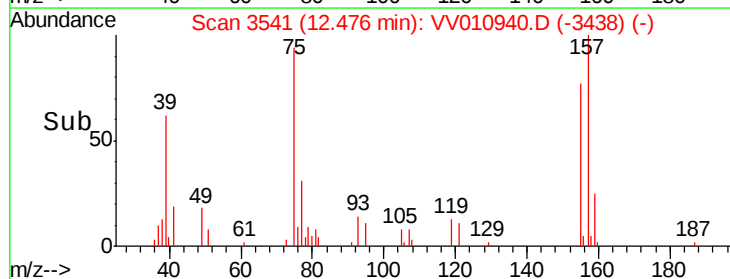
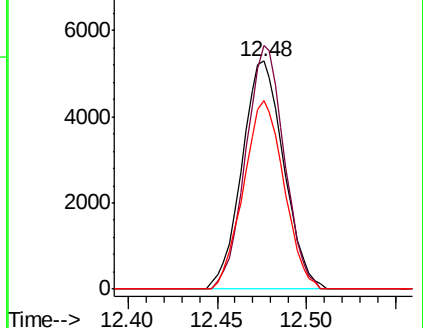
155 82.6 63.6 95.4

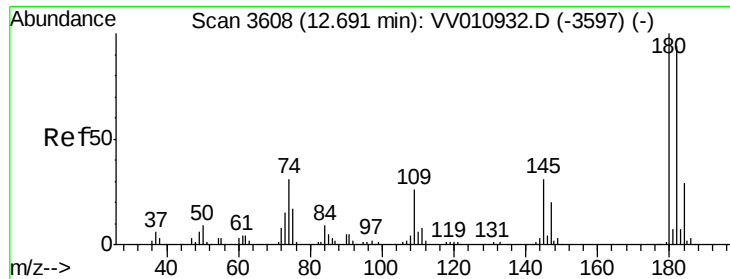


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

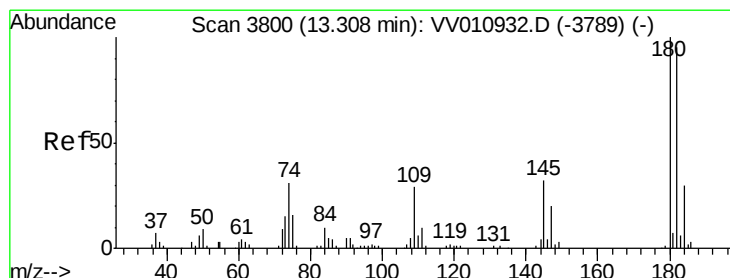
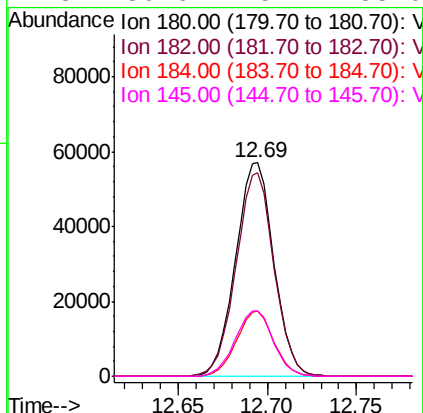
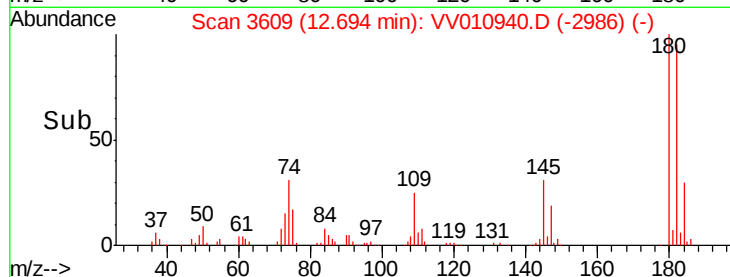
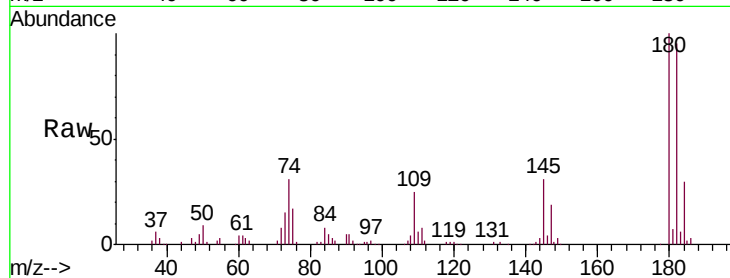




#67
 1,3,5-Trichlorobenzene
 Concen: 27.208 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

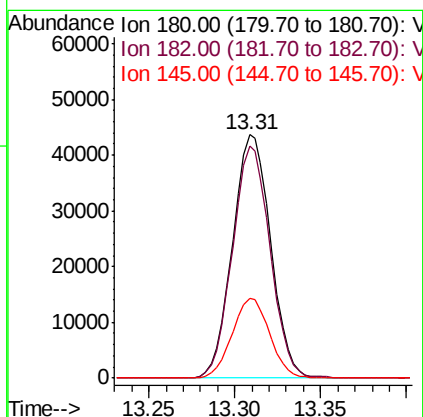
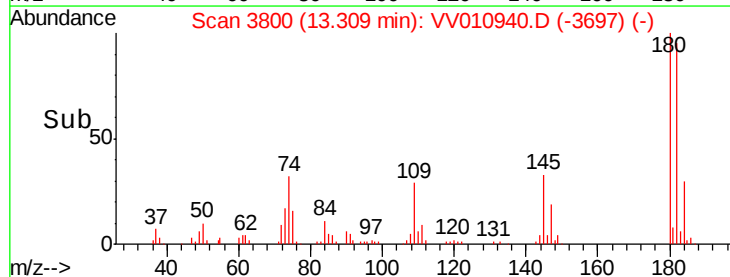
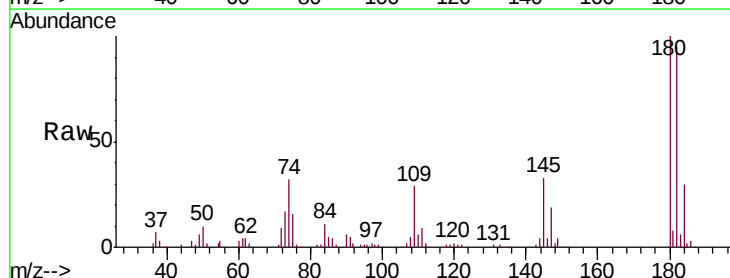
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

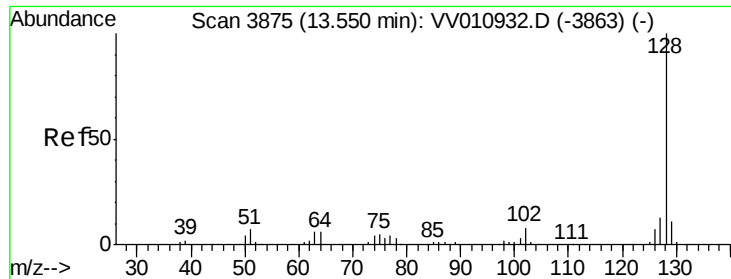
Tgt Ion:180 Resp: 85322
 Ion Ratio Lower Upper
 180 100
 182 94.5 75.9 113.9
 184 29.6 24.1 36.1
 145 30.6 25.4 38.0



#68
 1,2,4-trichlorobenzene
 Concen: 26.547 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV010940.D
 Acq: 16 May 2019 20:46

Tgt Ion:180 Resp: 67222
 Ion Ratio Lower Upper
 180 100
 182 94.1 74.2 111.2
 145 32.2 25.4 38.0





#69

Naphthalene

Concen: 24.945 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

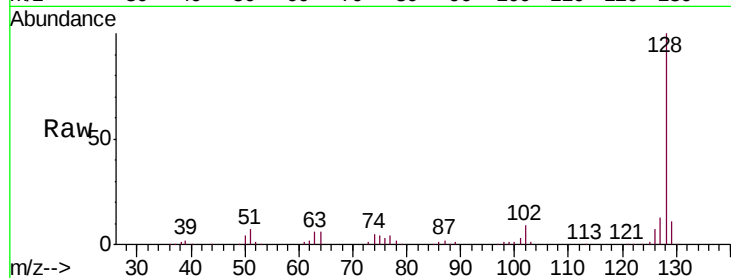
Tgt Ion:128 Resp: 132321

Ion Ratio Lower Upper

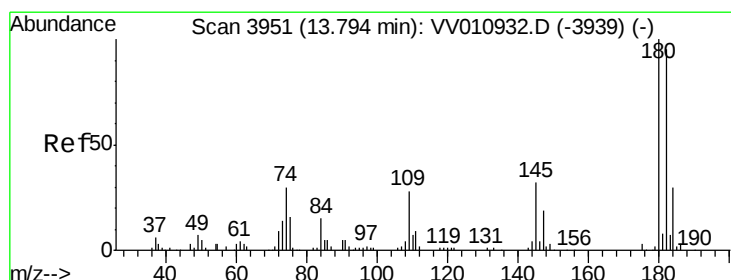
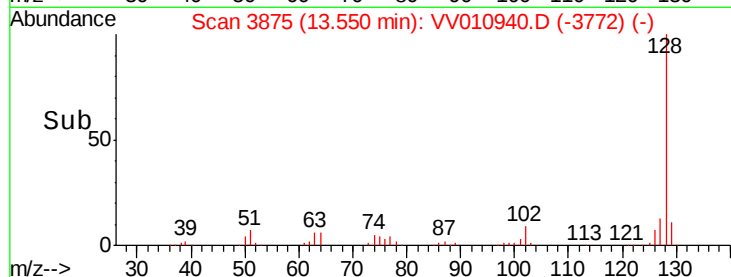
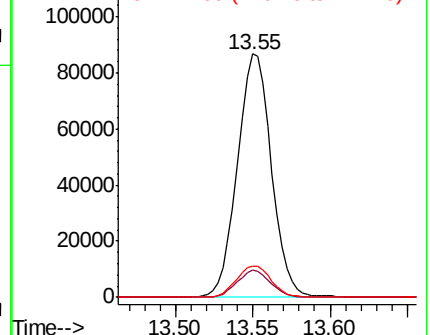
128 100

129 11.0 8.7 13.1

127 13.2 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 27.129 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010940.D

Acq: 16 May 2019 20:46

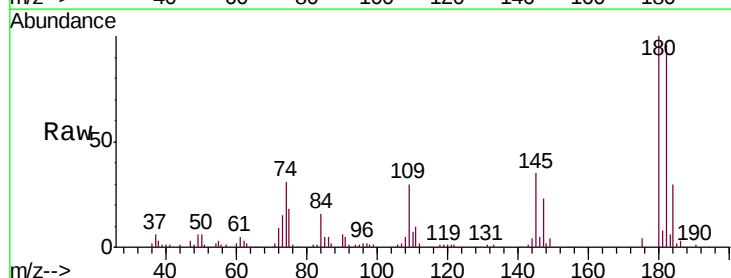
Tgt Ion:180 Resp: 65383

Ion Ratio Lower Upper

180 100

182 95.5 75.8 113.6

145 34.4 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

