

Data File : VV009508.D
Acq On : 06 Mar 2019 01:24
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

Quant Time: Mar 06 04:18:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM030519S.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 06 04:12:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	163025	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	167018	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	82432	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	42410	21.61	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.44%
7) Chloroethane-d5	1.58	69	71538	25.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.84%
10) 1,1-Dichloroethene-d2	2.13	63	114336	22.39	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	89.56%
20) 2-Butanone-d5	3.94	46	29689	44.40	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.80%
24) Chloroform-d	4.40	84	95994	24.72	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.88%
26) 1,2-Dichloroethane-d4	5.08	65	57338	25.95	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.80%
29) Benzene-d6	5.10	84	191867	23.19	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.76%
33) 1,2-Dichloropropane-d6	6.12	67	58798	24.09	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.36%
37) Toluene-d8	7.36	98	182421	22.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.48%
38) trans-1,3-Dichloropropene-	7.66	79	27404	23.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.68%
39) 2-Hexanone-d5	8.14	63	23222	40.76	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	81.52%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	59554	22.89	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.56%
61) 1,2-Dichlorobenzene-d4	11.67	152	70766	23.52	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.08%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	41056	21.872 ug/L	98
3) Chloromethane	1.25	50	50258	25.122 ug/L	99
5) Vinyl chloride	1.32	62	51495	23.348 ug/L	99
6) Bromomethane	1.53	94	72259	26.318 ug/L	98
8) Chloroethane	1.59	64	52563	21.447 ug/L	96
9) Trichlorofluoromethane	1.77	101	100854	22.292 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	58208	22.977 ug/L	96
12) 1,1-Dichloroethene	2.14	96	51487	23.755 ug/L	83
13) Acetone	2.20	43	22168	32.604 ug/L	100
14) Carbon disulfide	2.32	76	128381	23.369 ug/L	99
15) Methyl Acetate	2.47	43	24782	22.508 ug/L	97
16) Methylene chloride	2.53	84	55308	25.851 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	134185	27.646 ug/L	97
18) trans-1,2-Dichloroethene	2.79	96	47698	24.500 ug/L	99
19) 1,1-Dichloroethane	3.23	63	90867	26.489 ug/L	100
21) 2-Butanone	4.03	43	30113	35.093 ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	59790	27.203 ug/L	98

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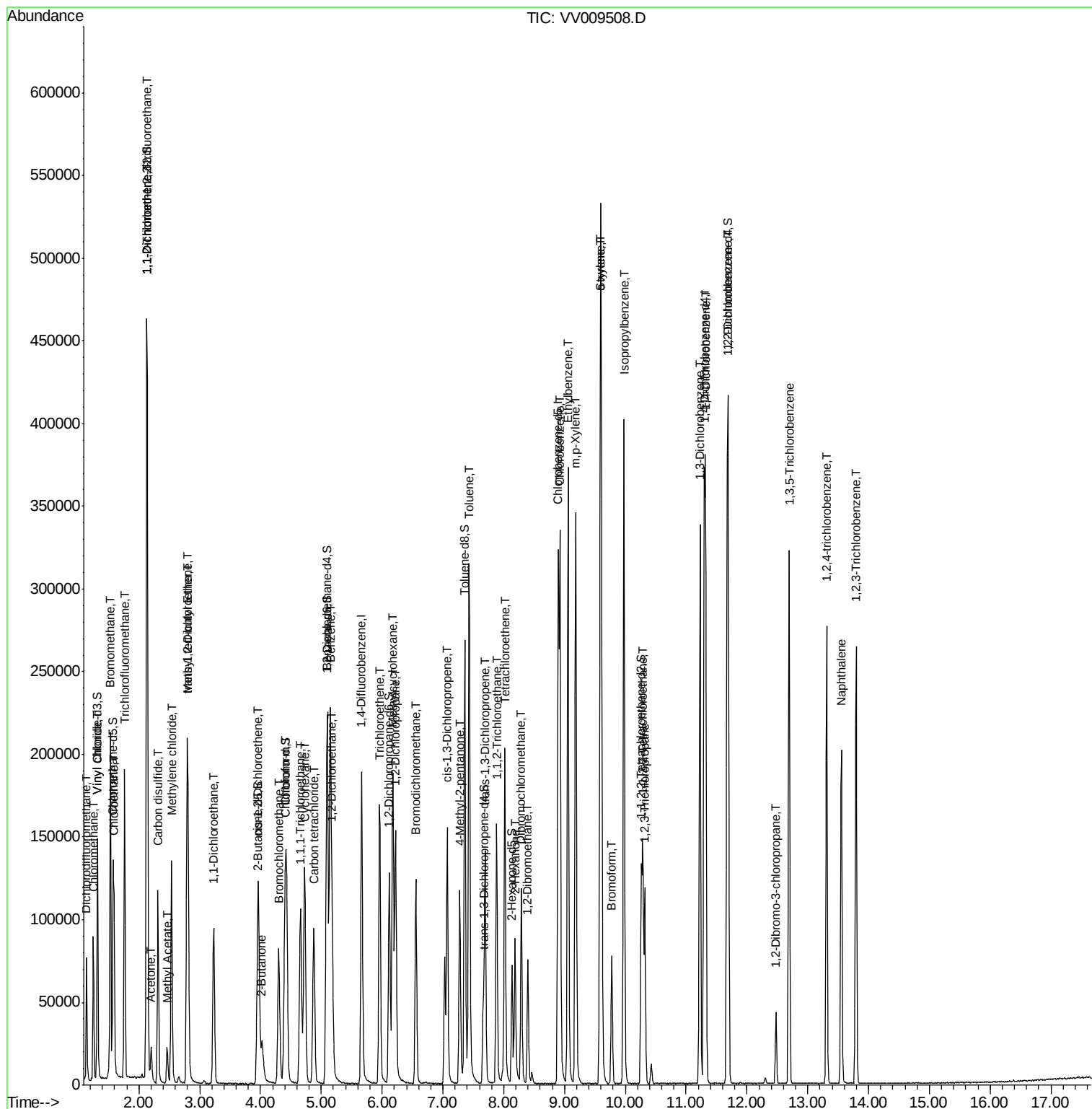
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	27615	27.248	ug/L	94
25) Chloroform	4.43	83	104129	27.200	ug/L	99
27) 1,2-Dichloroethane	5.18	62	72014	27.085	ug/L	99
30) Cyclohexane	4.72	56	71435	20.153	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	83319	22.316	ug/L	99
32) Carbon tetrachloride	4.88	117	67915	21.516	ug/L	99
34) Benzene	5.15	78	212347	24.605	ug/L	100
35) Trichloroethene	5.96	95	57963	23.371	ug/L	98
36) Methylcyclohexane	6.18	83	82078	20.315	ug/L	99
40) 1,2-Dichloropropane	6.22	63	56861	25.553	ug/L	99
41) Bromodichloromethane	6.56	83	79006	26.305	ug/L	97
42) cis-1,3-Dichloropropene	7.07	75	85954	24.881	ug/L	100
43) 4-Methyl-2-pentanone	7.28	43	78177	44.568	ug/L	99
44) Toluene	7.43	91	237809	24.378	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	76644	25.404	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	48028	25.980	ug/L	96
47) Tetrachloroethene	8.02	164	42397	22.538	ug/L	95
49) 2-Hexanone	8.19	43	54518	41.102	ug/L	99
50) Dibromochloromethane	8.29	129	57060	25.494	ug/L	95
51) 1,2-Dibromoethane	8.40	107	48639	25.464	ug/L #	99
52) Chlorobenzene	8.93	112	162326	25.105	ug/L	98
53) Ethylbenzene	9.06	91	268020	24.010	ug/L	98
54) m,p-Xylene	9.18	106	103366	24.466	ug/L	97
55) o-xylene	9.59	106	103104	25.308	ug/L	95
56) Styrene	9.60	104	175782	26.226	ug/L	99
57) Isopropylbenzene	9.98	105	263748	23.471	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	65375	25.044	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	45307	24.077	ug/L	98
62) Bromoform	9.78	173	31985	23.911	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	127802	24.821	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	127480	24.228	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	120980	25.194	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	10435	21.696	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	87610	23.721	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	73759	24.944	ug/L	100
69) Naphthalene	13.55	128	154021	24.728	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	68890	25.324	ug/L	95

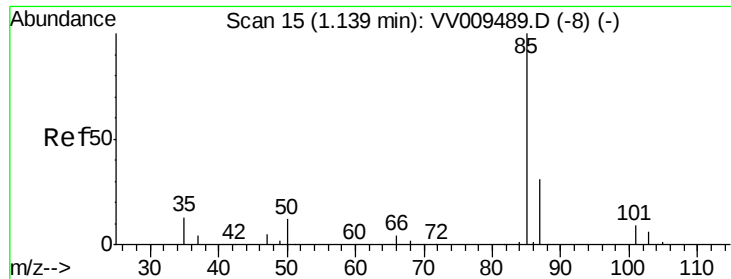
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.872 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

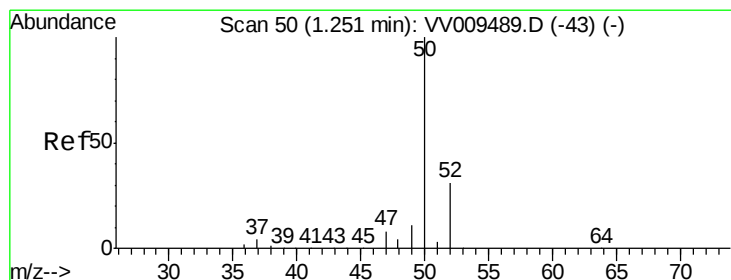
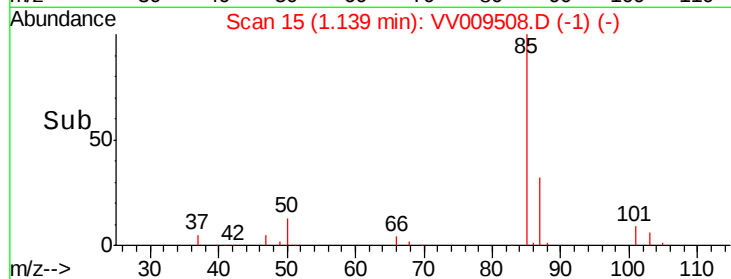
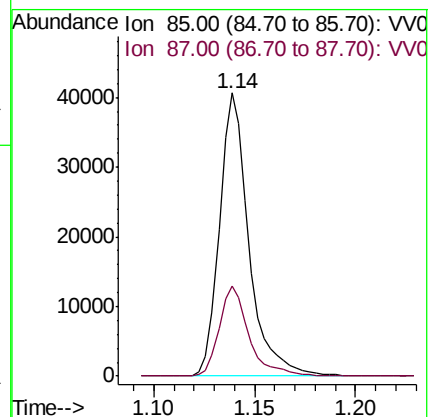
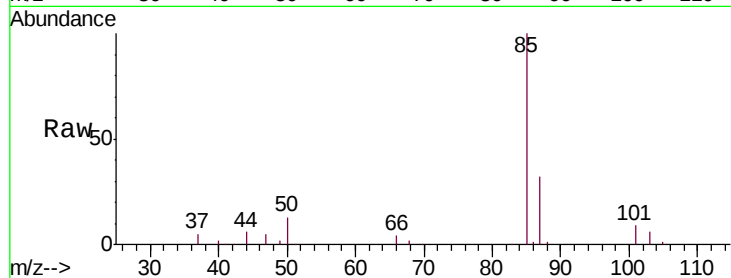
VSTD02567

Tgt Ion: 85 Resp: 41056

Ion Ratio Lower Upper

85 100

87 32.1 23.4 43.4



#3

Chloromethane

Concen: 25.122 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009508.D

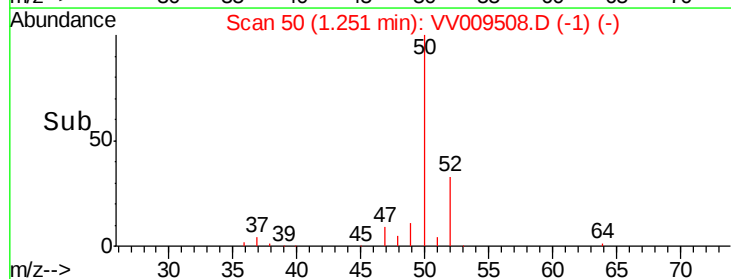
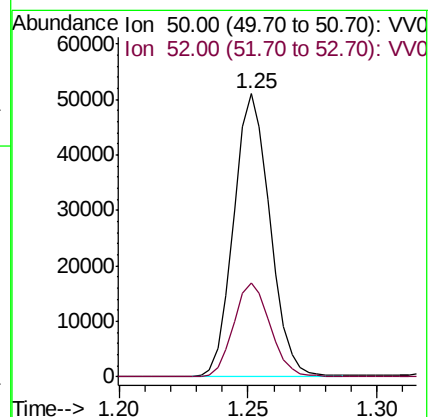
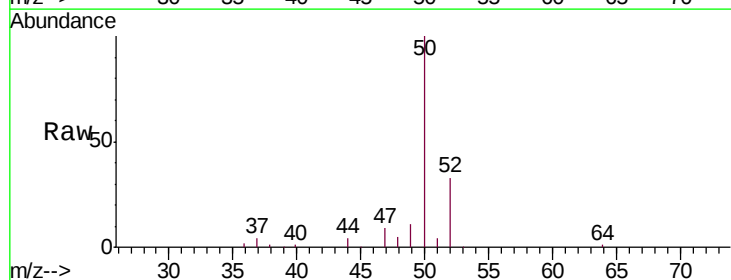
Acq: 06 Mar 2019 01:24

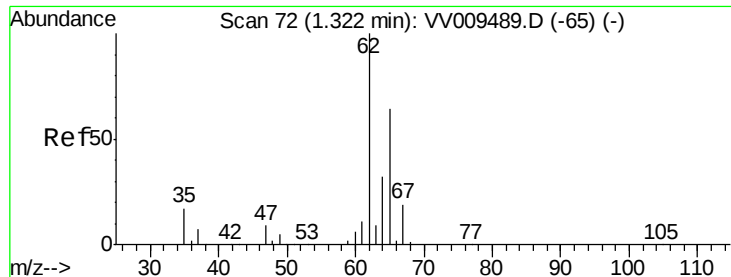
Tgt Ion: 50 Resp: 50258

Ion Ratio Lower Upper

50 100

52 33.4 23.1 42.9





#5

Vinyl chloride

Concen: 23.348 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

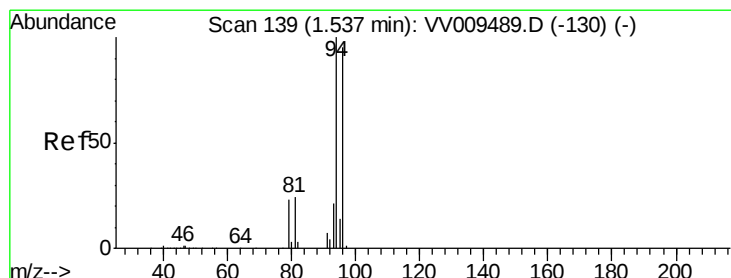
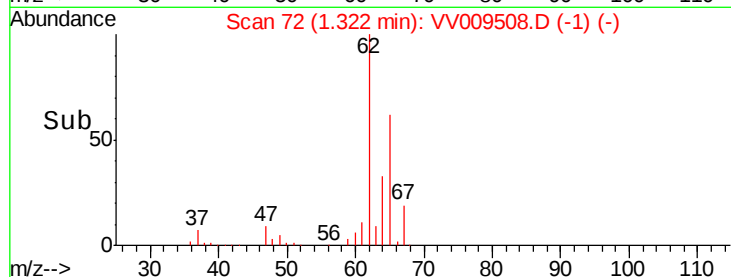
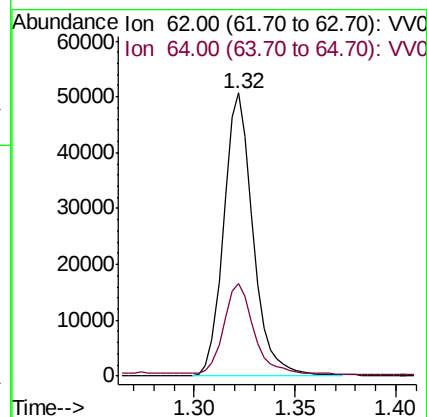
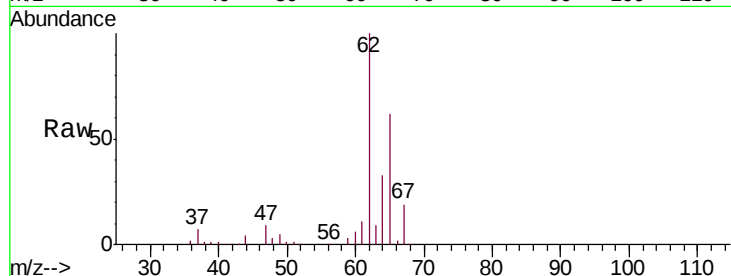
VSTD02567

Tgt Ion: 62 Resp: 51495

Ion Ratio Lower Upper

62 100

64 32.9 23.5 43.7



#6

Bromomethane

Concen: 26.318 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.01 min

Lab File: VV009508.D

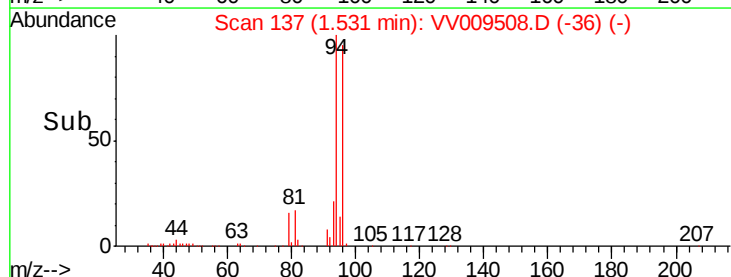
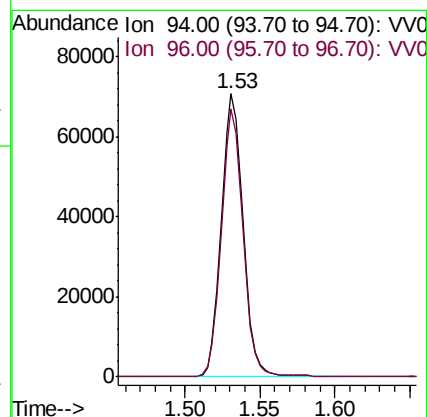
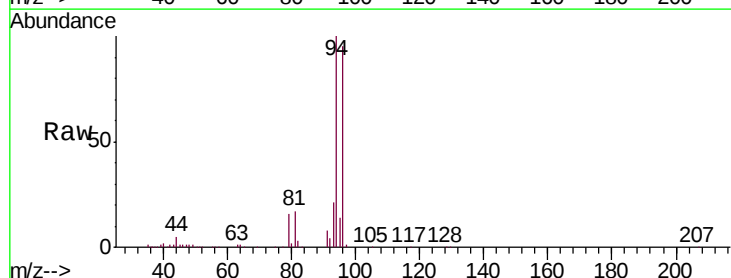
Acq: 06 Mar 2019 01:24

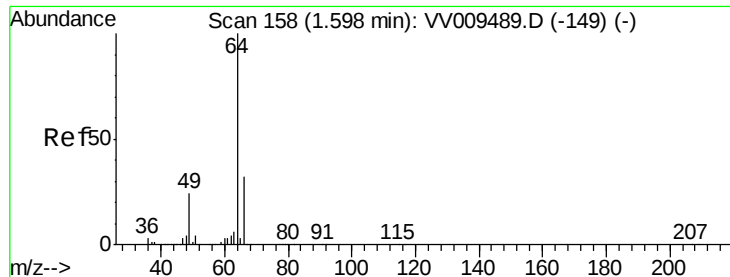
Tgt Ion: 94 Resp: 72259

Ion Ratio Lower Upper

94 100

96 93.2 9.5 181.4





#8

Chloroethane

Concen: 21.447 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.01 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

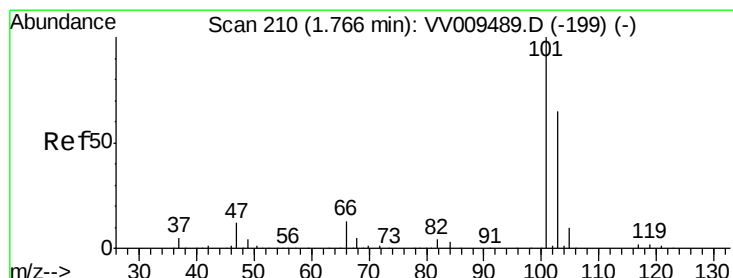
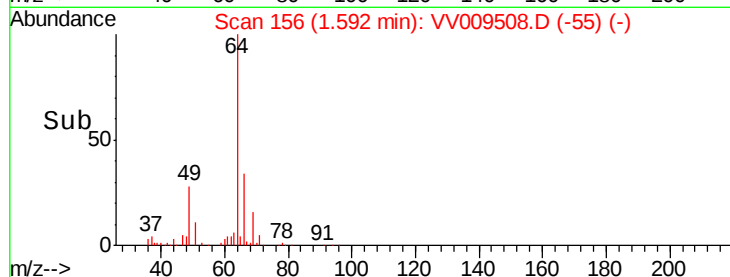
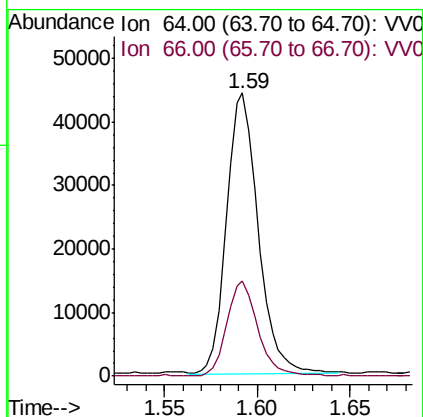
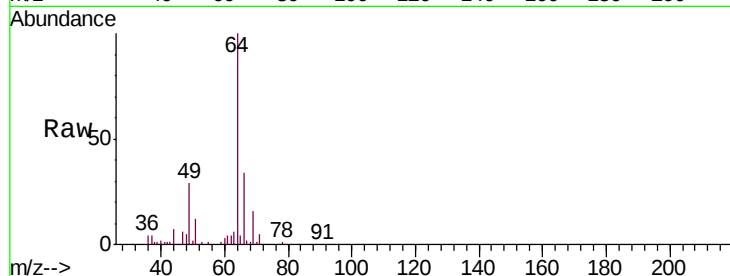
VSTD02567

Tgt Ion: 64 Resp: 52563

Ion Ratio Lower Upper

64 100

66 33.5 21.8 40.6



#9

Trichlorofluoromethane

Concen: 22.292 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV009508.D

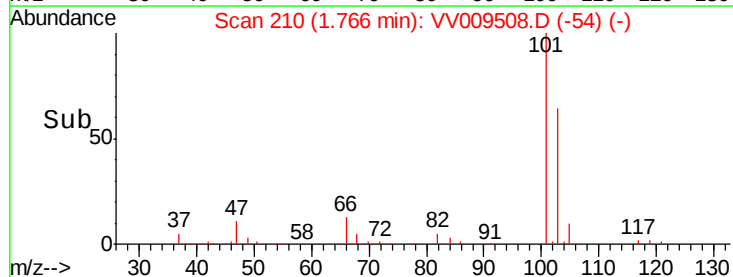
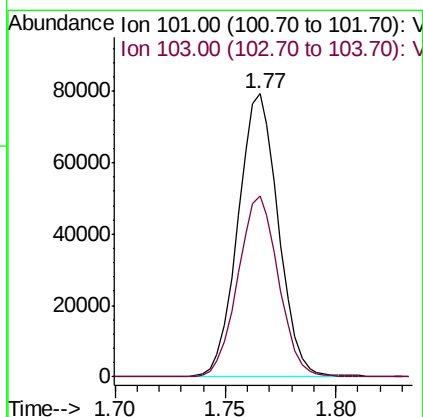
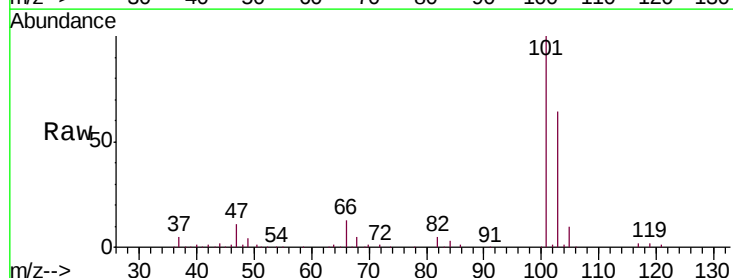
Acq: 06 Mar 2019 01:24

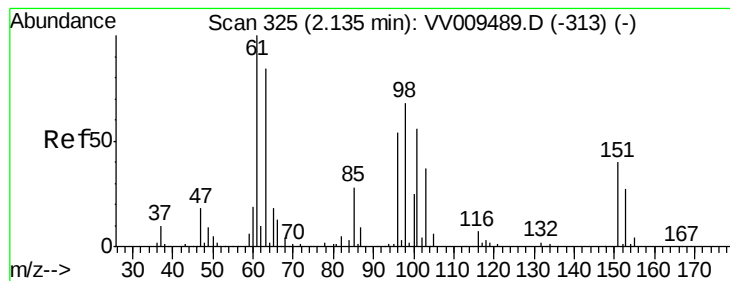
Tgt Ion: 101 Resp: 100854

Ion Ratio Lower Upper

101 100

103 64.5 44.7 83.1





#11

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

Concen: 22.977 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

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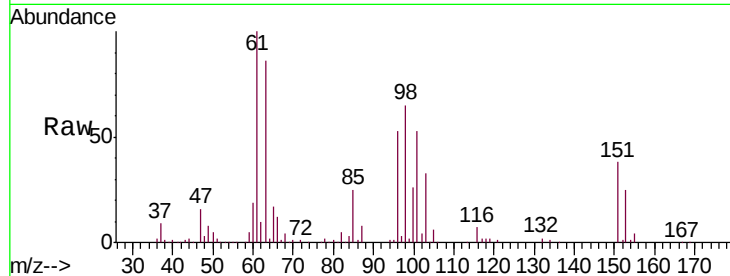
Tgt Ion:101 Resp: 58208

Ion Ratio Lower Upper

101 100

85 47.6 40.1 60.1

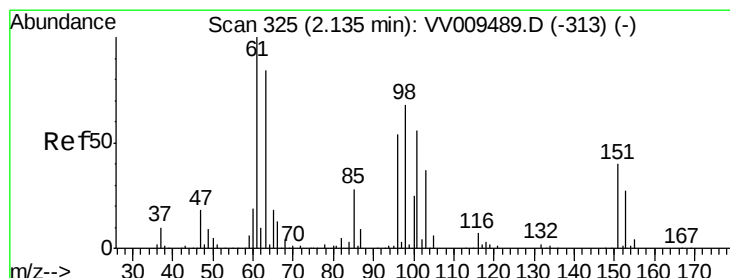
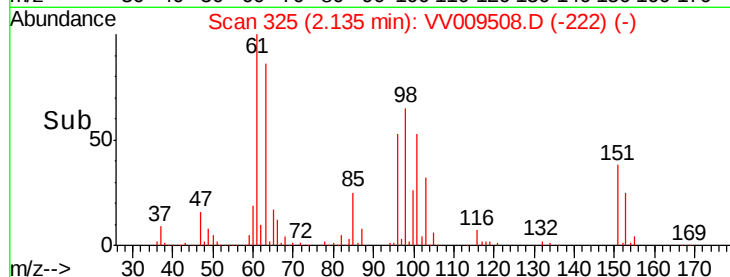
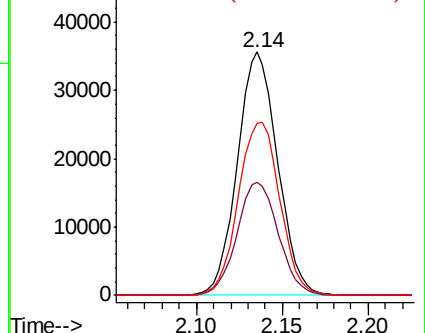
151 73.3 55.9 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV009489.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV009489.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV009489.D (-313) (-)



#12

1,1-Dichloroethene

Concen: 23.755 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

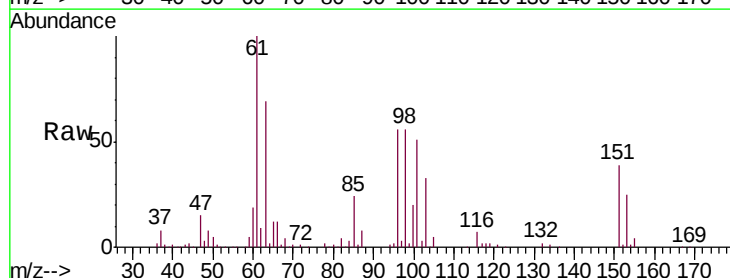
Tgt Ion: 96 Resp: 51487

Ion Ratio Lower Upper

96 100

61 178.9 136.9 254.3

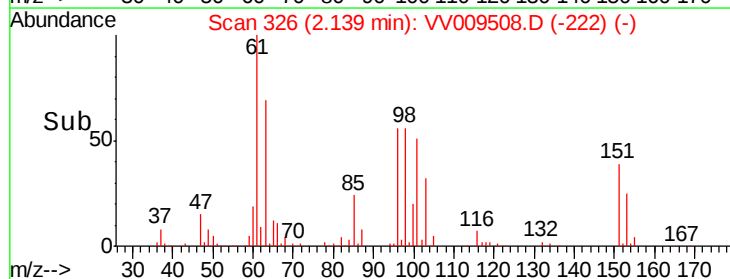
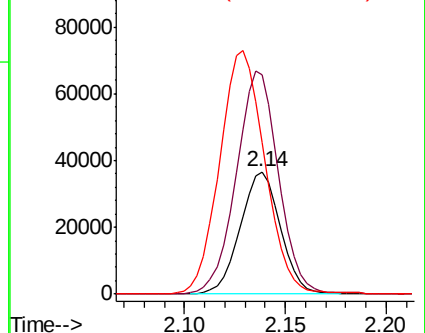
63 123.2 108.7 201.9

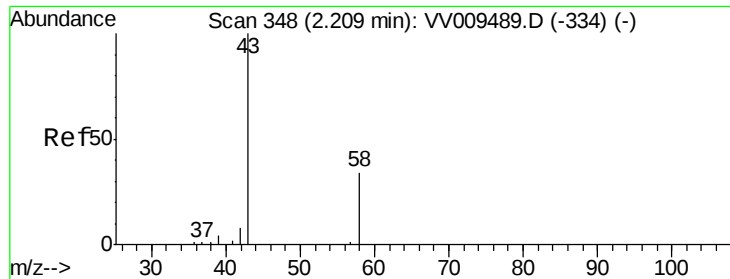


Abundance Ion 96.00 (95.70 to 96.70): VV009508.D (-222) (-)

Ion 61.00 (60.70 to 61.70): VV009508.D (-222) (-)

Ion 63.00 (62.70 to 63.70): VV009508.D (-222) (-)





#13

Acetone

Concen: 32.604 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.01 min

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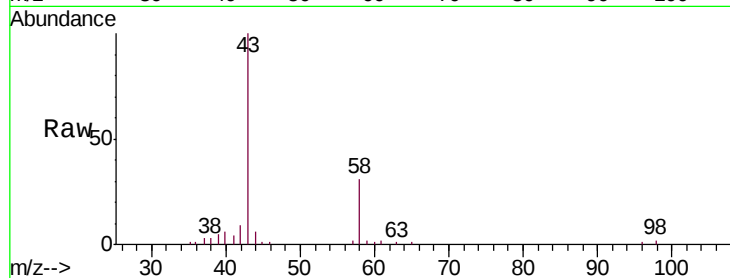
VSTD02567

Tgt Ion: 43 Resp: 22168

Ion Ratio Lower Upper

43 100

58 34.6 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VV009489.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV009489.D (-334) (-)

2.20

15000

10000

5000

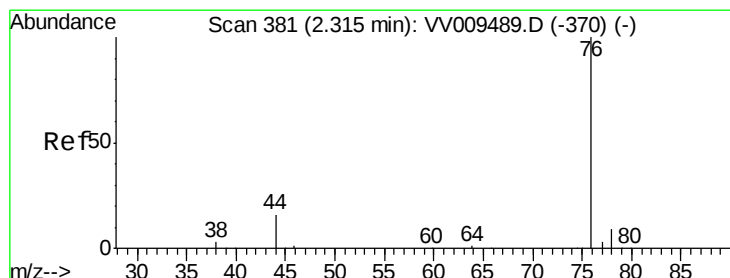
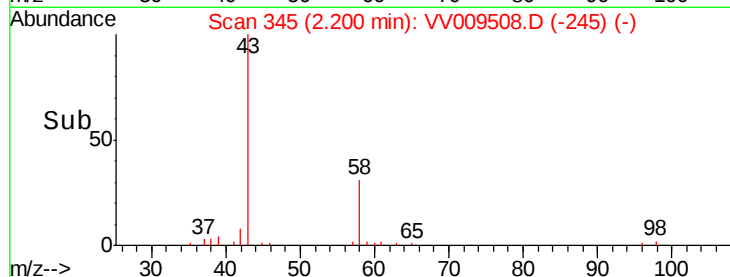
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Time-->

2.15

2.20

2.25



#14

Carbon disulfide

Concen: 23.369 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009508.D

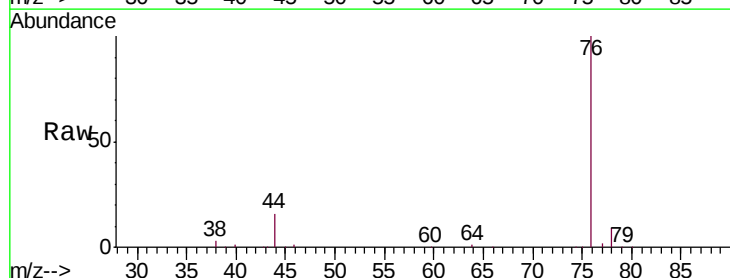
Acq: 06 Mar 2019 01:24

Tgt Ion: 76 Resp: 128381

Ion Ratio Lower Upper

76 100

78 8.9 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009489.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV009489.D (-370) (-)

2.32

100000

80000

60000

40000

20000

0

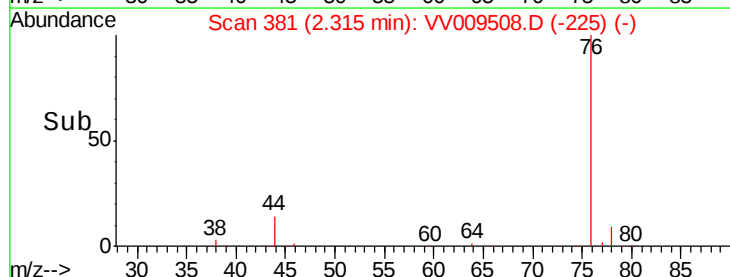
Time-->

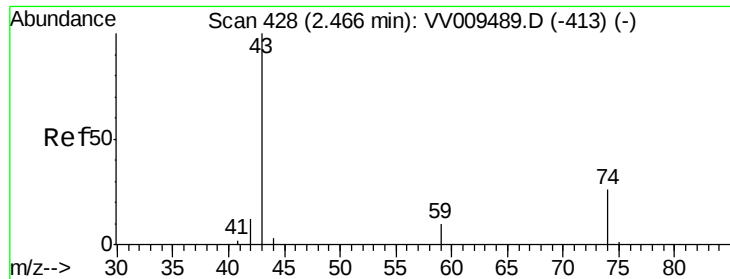
2.25

2.30

2.35

2.40





#15

Methyl Acetate

Concen: 22.508 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

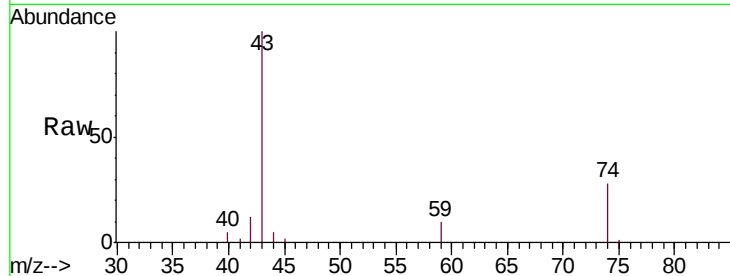
VSTD02567

Tgt Ion: 43 Resp: 24782

Ion Ratio Lower Upper

43 100

74 25.8 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VV009489.D (-413) (-)

Ion 74.00 (73.70 to 74.70): VV009489.D (-413) (-)

15000

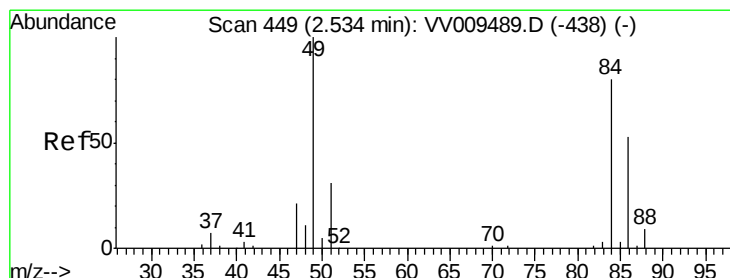
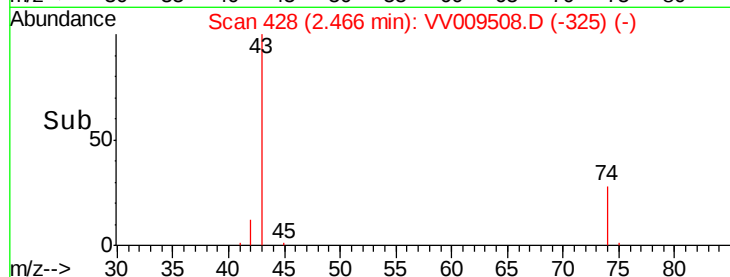
10000

5000

0

2.40 2.45 2.50 2.55

Time-->



#16

Methylene chloride

Concen: 25.851 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

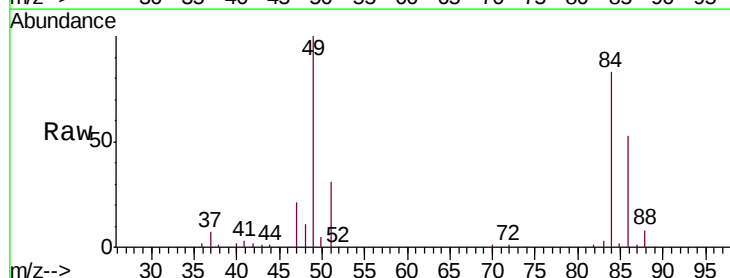
Tgt Ion: 84 Resp: 55308

Ion Ratio Lower Upper

84 100

49 120.5 84.6 157.0

86 64.4 46.1 85.7



Abundance Ion 84.00 (83.70 to 84.70): VV009489.D (-438) (-)

Ion 49.00 (48.70 to 49.70): VV009489.D (-438) (-)

Ion 86.00 (85.70 to 86.70): VV009489.D (-438) (-)

50000

40000

30000

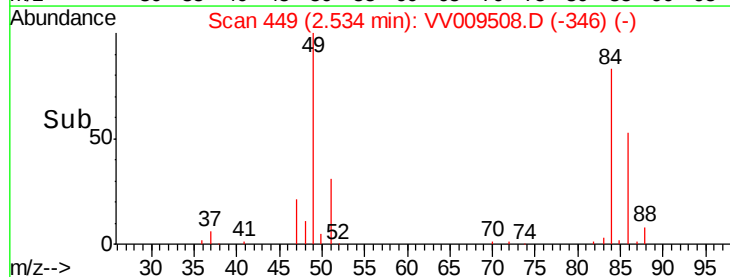
20000

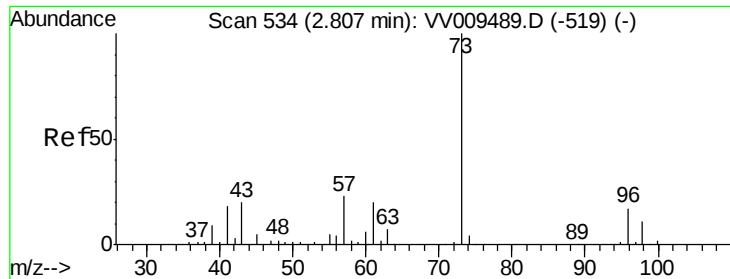
10000

0

2.45 2.50 2.55 2.60

Time-->

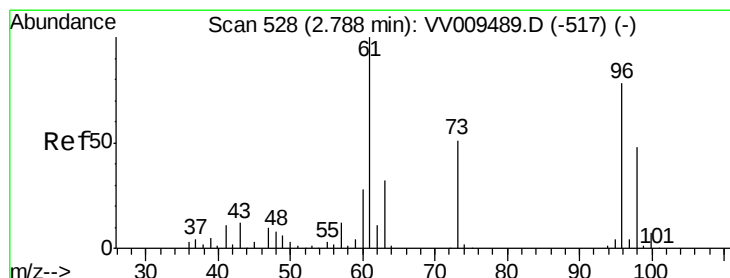
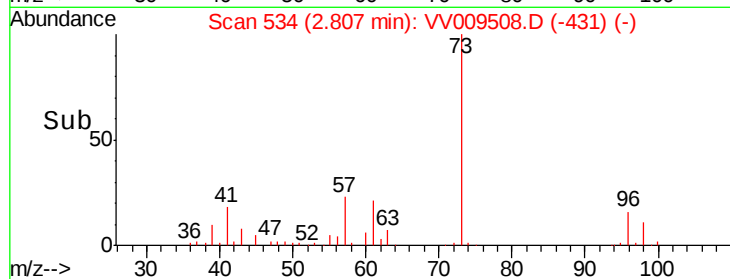
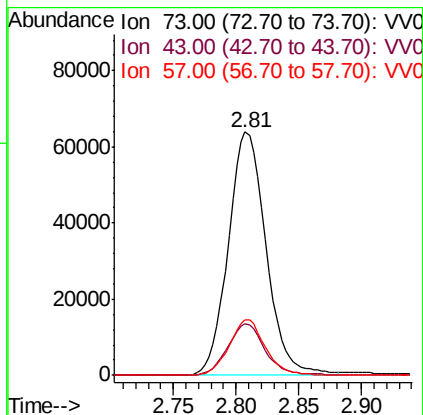
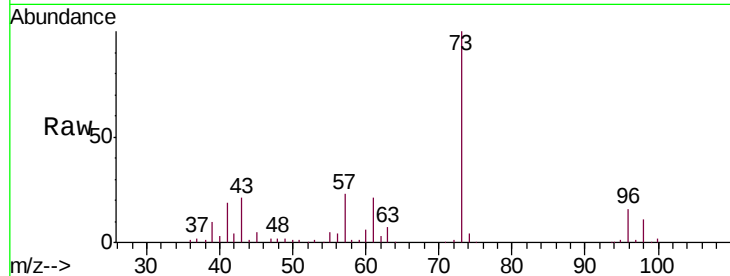




#17
Methyl tert-butyl Ether
Concen: 27.646 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

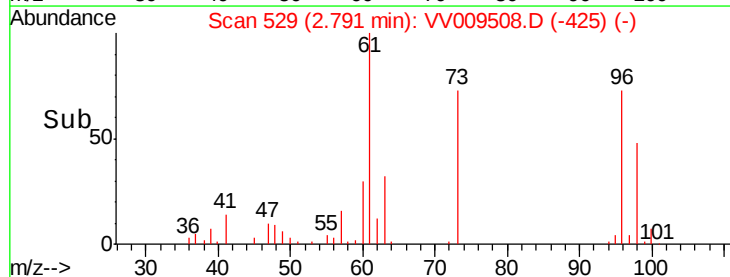
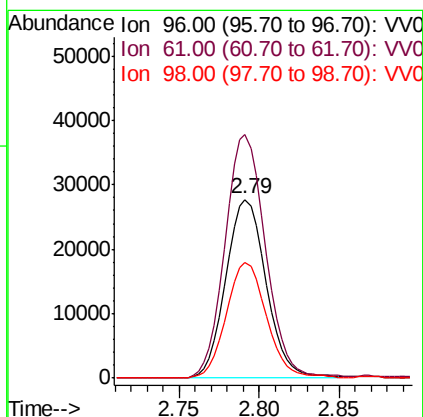
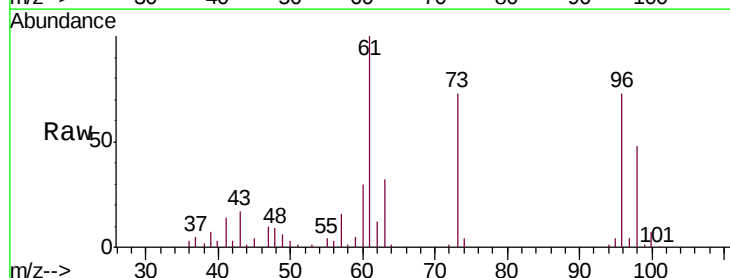
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

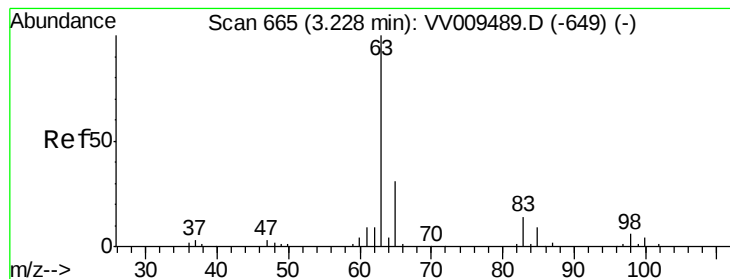
Tgt Ion: 73 Resp: 134185
Ion Ratio Lower Upper
73 100
43 20.7 15.0 22.4
57 21.8 17.0 25.4



#18
trans-1,2-Dichloroethene
Concen: 24.500 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

Tgt Ion: 96 Resp: 47698
Ion Ratio Lower Upper
96 100
61 136.2 95.6 177.6
98 64.8 44.0 81.6





#19

1,1-Dichloroethane

Concen: 26.489 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

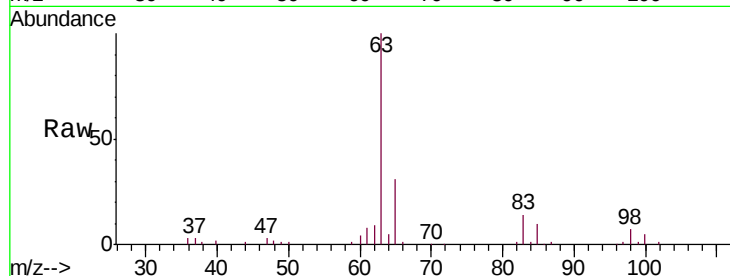
Tgt Ion: 63 Resp: 90867

Ion Ratio Lower Upper

63 100

65 31.4 22.1 41.1

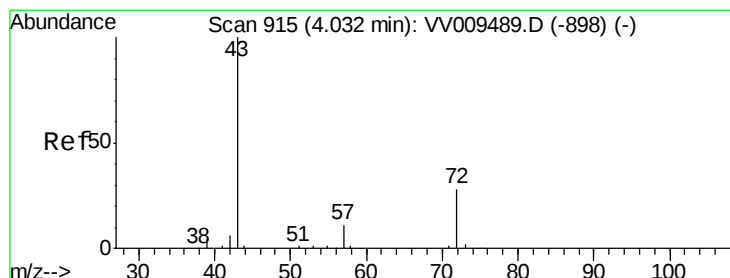
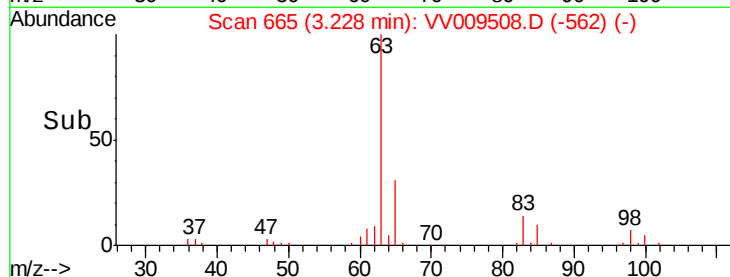
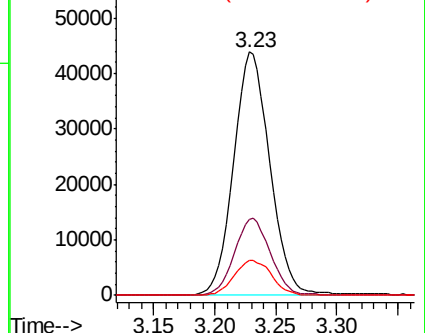
83 14.4 10.2 19.0



Abundance Ion 63.00 (62.70 to 63.70): VV009508.D (-649) (-)

Ion 65.00 (64.70 to 65.70): VV009508.D (-649) (-)

Ion 83.00 (82.70 to 83.70): VV009508.D (-649) (-)



#21

2-Butanone

Concen: 35.093 ug/L

RT: 4.03 min Scan# 913

Delta R.T. -0.01 min

Lab File: VV009508.D

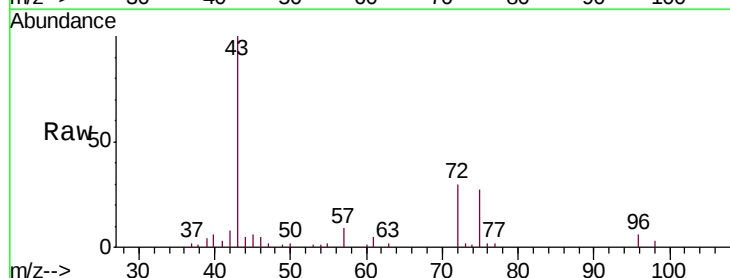
Acq: 06 Mar 2019 01:24

Tgt Ion: 43 Resp: 30113

Ion Ratio Lower Upper

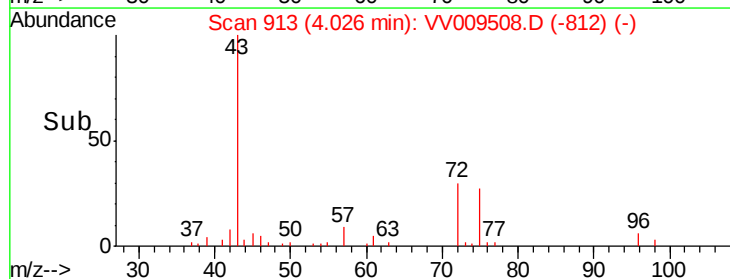
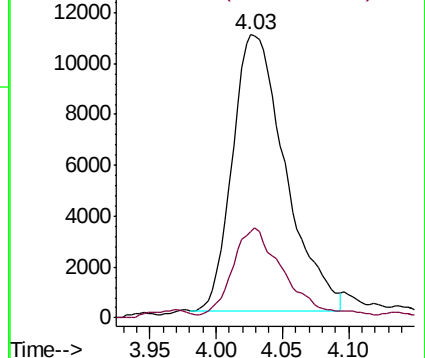
43 100

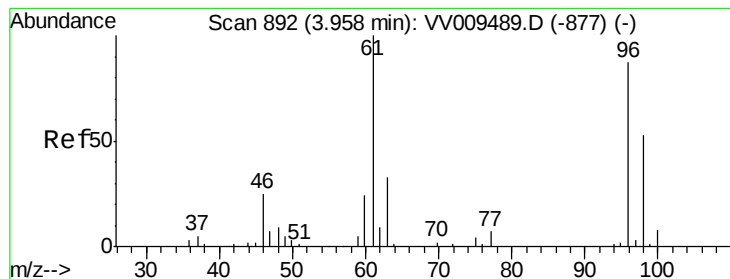
72 29.3 13.7 41.0



Abundance Ion 43.00 (42.70 to 43.70): VV009508.D (-812) (-)

Ion 72.00 (71.70 to 72.70): VV009508.D (-812) (-)



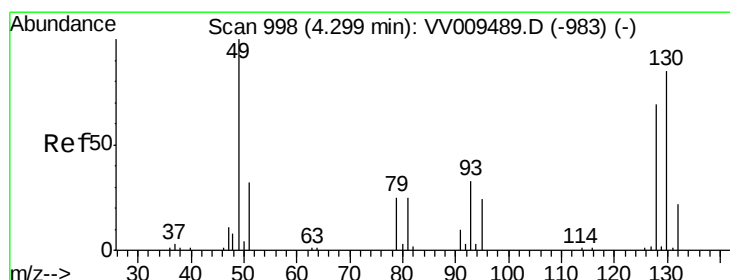
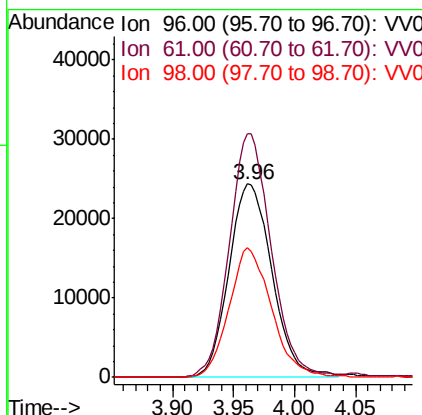
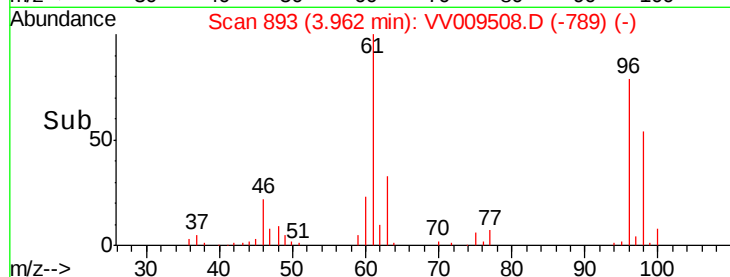
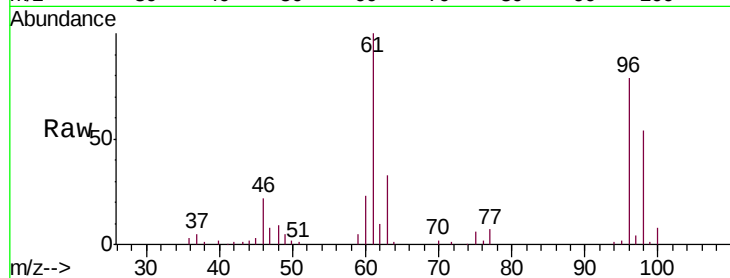


#22

cis-1,2-Dichloroethene
Concen: 27.203 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

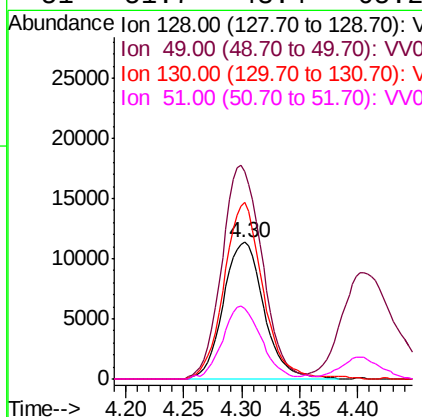
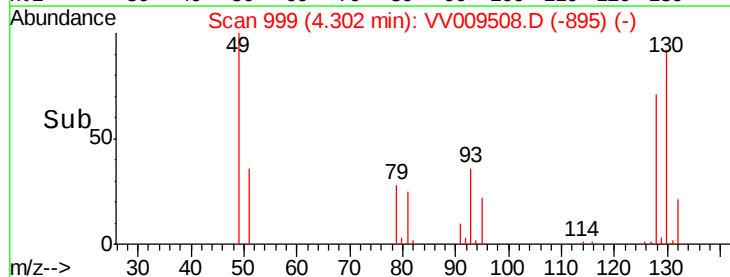
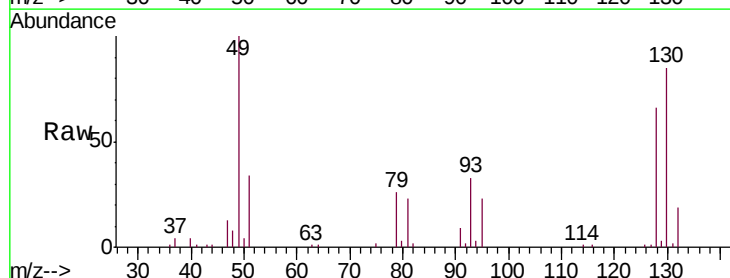
Tgt Ion: 96 Resp: 59790
Ion Ratio Lower Upper
96 100
61 125.8 87.2 161.9
98 67.4 44.6 82.8

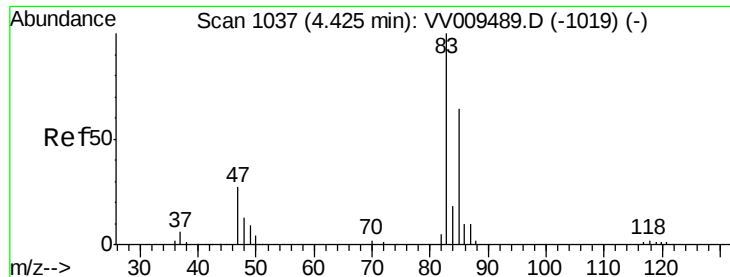


#23

Bromochloromethane
Concen: 27.248 ug/L
RT: 4.30 min Scan# 999
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

Tgt Ion: 128 Resp: 27615
Ion Ratio Lower Upper
128 100
49 152.0 115.5 214.5
130 129.1 92.6 172.0
51 51.7 43.4 65.2

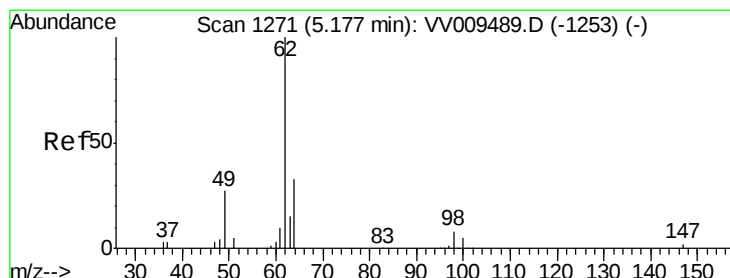
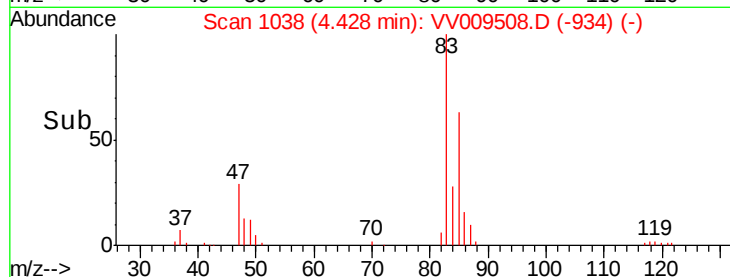
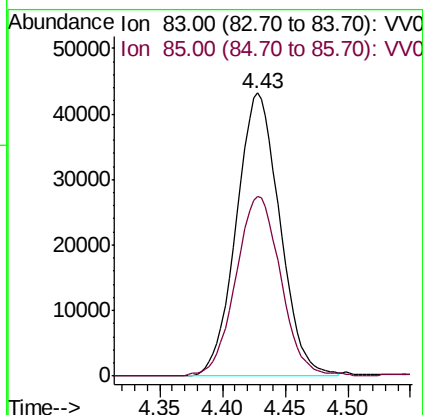
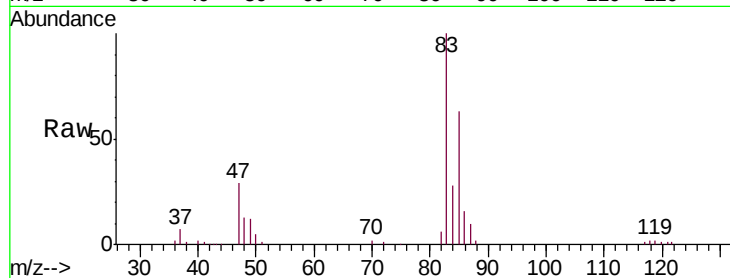




#25
Chloroform
Concen: 27.200 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

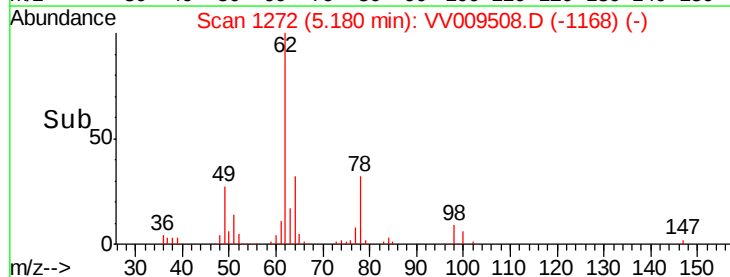
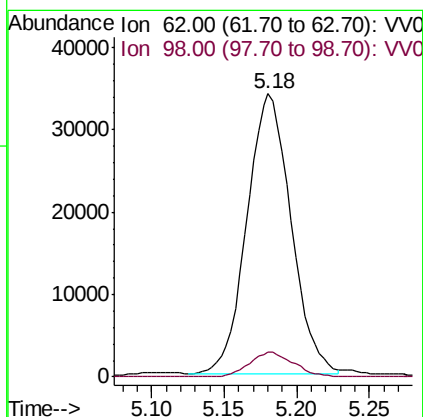
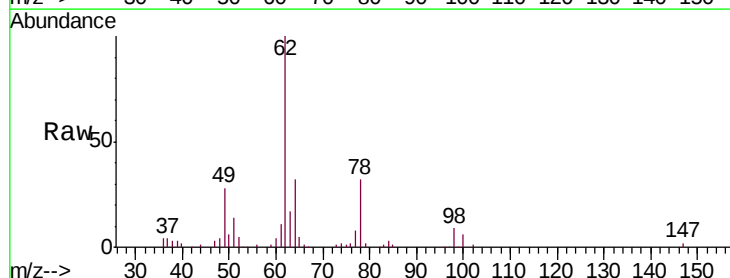
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

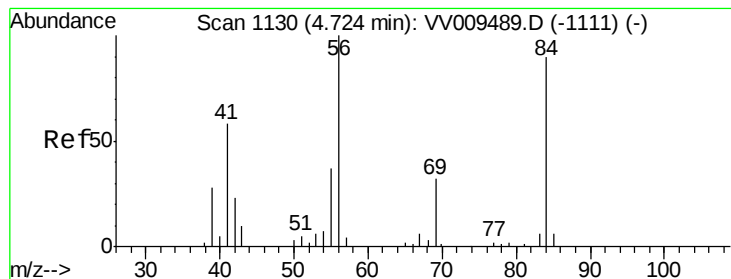
Tgt Ion: 83 Resp: 104129
Ion Ratio Lower Upper
83 100
85 65.8 45.4 84.2



#27
1,2-Dichloroethane
Concen: 27.085 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

Tgt Ion: 62 Resp: 72014
Ion Ratio Lower Upper
62 100
98 8.6 6.6 10.0





#30

Cyclohexane

Concen: 20.153 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

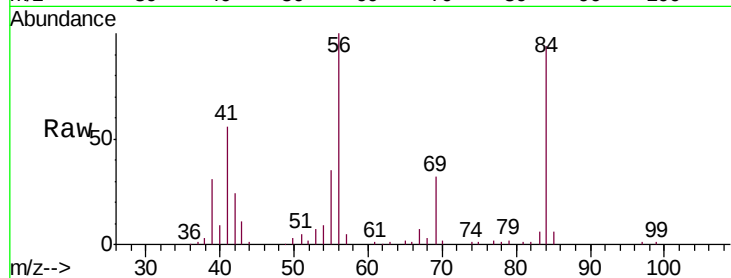
Tgt Ion: 56 Resp: 71435

Ion Ratio Lower Upper

56 100

69 32.4 24.9 37.3

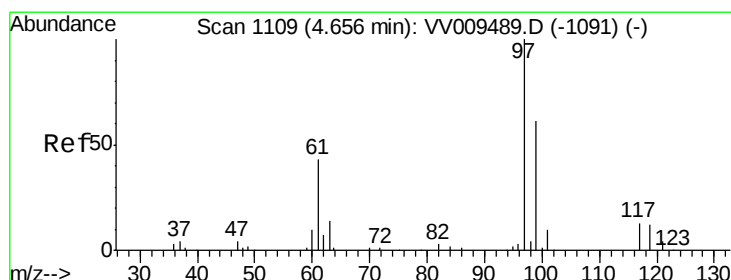
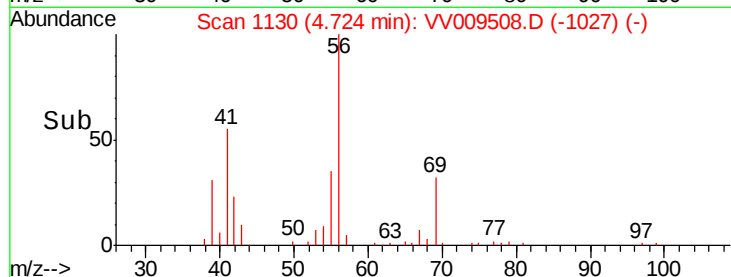
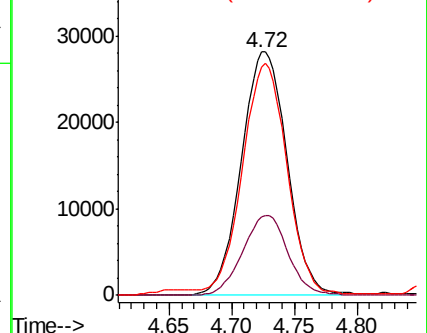
84 91.9 71.9 107.9



Abundance Ion 56.00 (55.70 to 56.70): VV009489.D (-1111) (-)

Ion 69.00 (68.70 to 69.70): VV009489.D (-1111) (-)

Ion 84.00 (83.70 to 84.70): VV009489.D (-1111) (-)



#31

1,1,1-Trichloroethane

Concen: 22.316 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

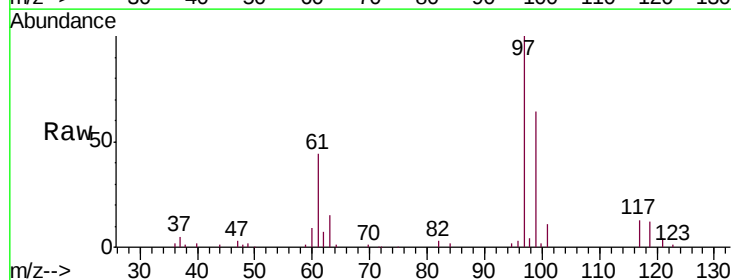
Tgt Ion: 97 Resp: 83319

Ion Ratio Lower Upper

97 100

99 63.7 51.0 76.4

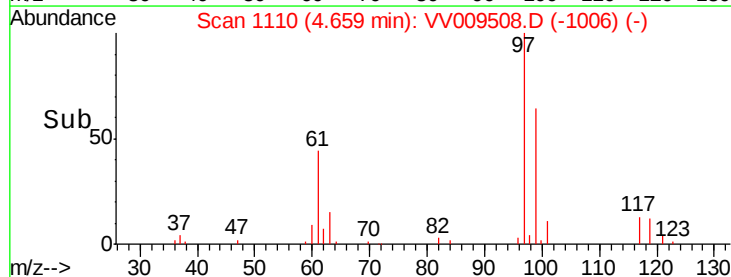
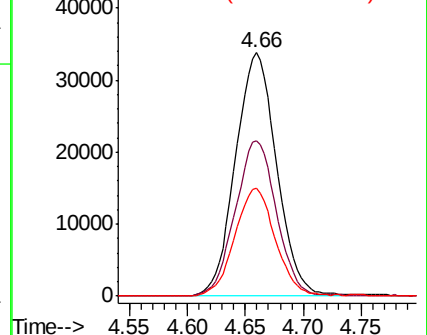
61 43.6 36.1 54.1

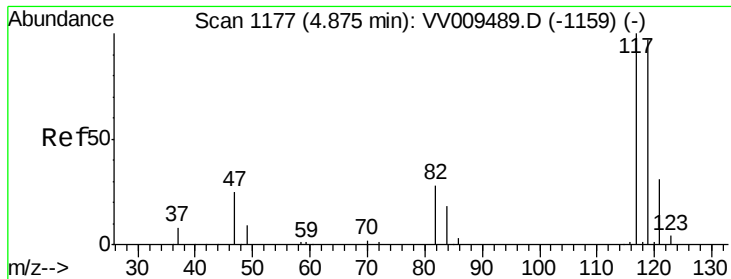


Abundance Ion 97.00 (96.70 to 97.70): VV009489.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV009489.D (-1091) (-)

Ion 61.00 (60.70 to 61.70): VV009489.D (-1091) (-)





#32

Carbon tetrachloride

Concen: 21.516 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

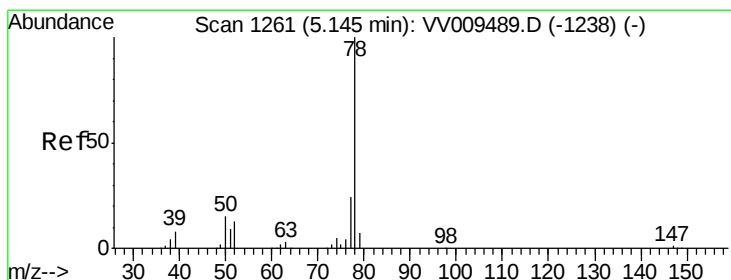
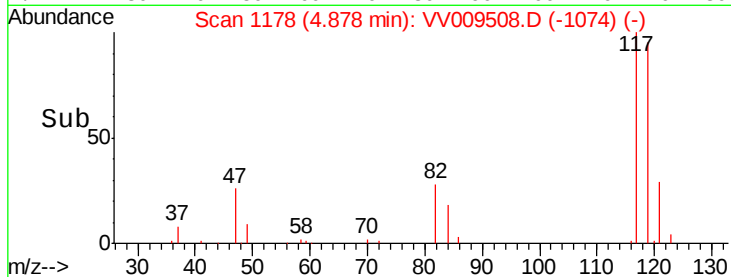
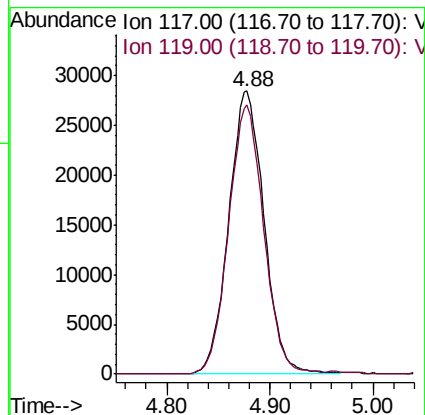
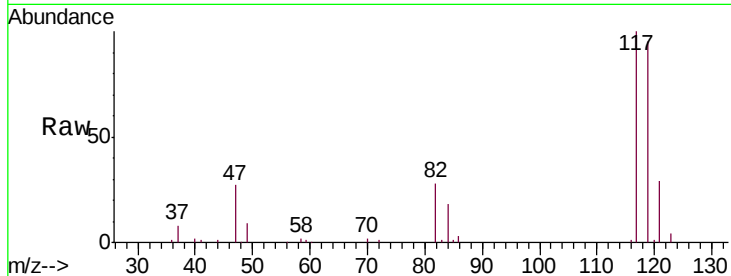
VSTD02567

Tgt Ion:117 Resp: 67915

Ion Ratio Lower Upper

117 100

119 94.4 76.5 114.7



#34

Benzene

Concen: 24.605 ug/L

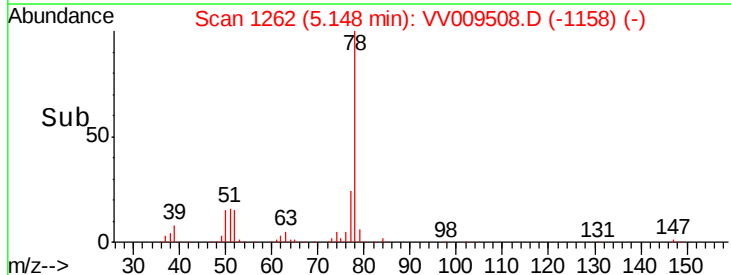
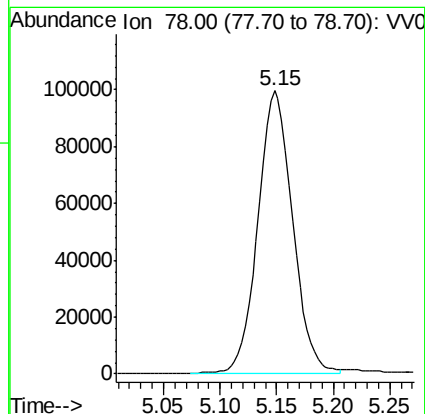
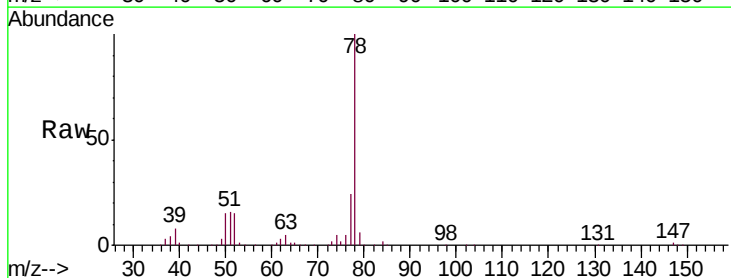
RT: 5.15 min Scan# 1262

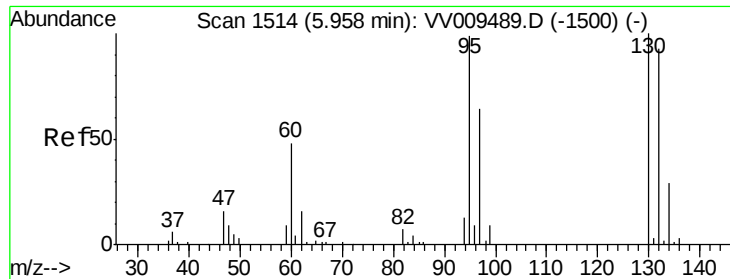
Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Tgt Ion: 78 Resp: 212347

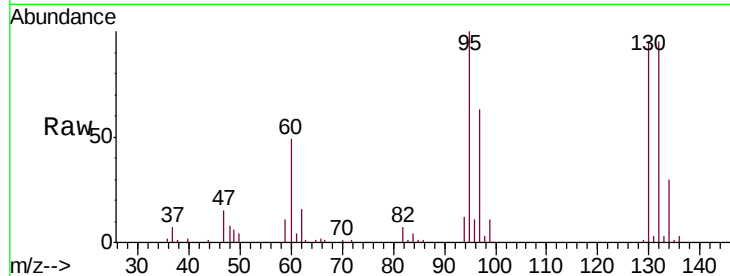




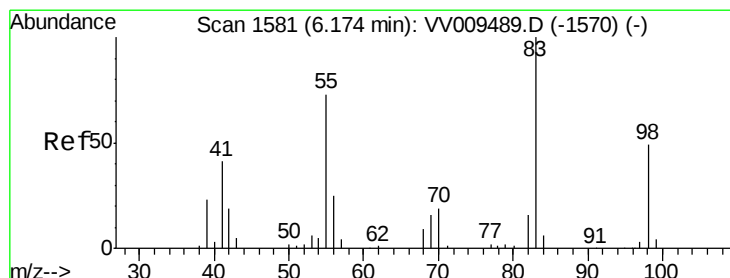
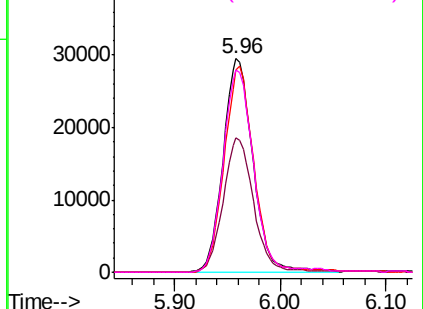
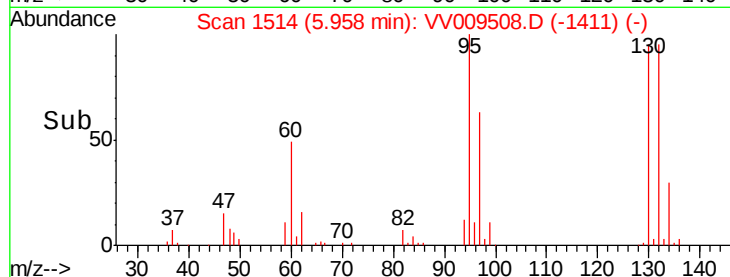
#35
 Trichloroethene
 Concen: 23.371 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

Tgt Ion: 95 Resp: 57963
 Ion Ratio Lower Upper
 95 100
 97 63.0 44.3 82.3
 132 94.2 64.4 119.6
 130 95.2 69.4 128.8

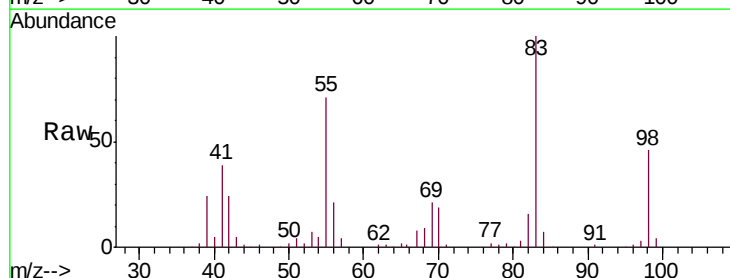


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

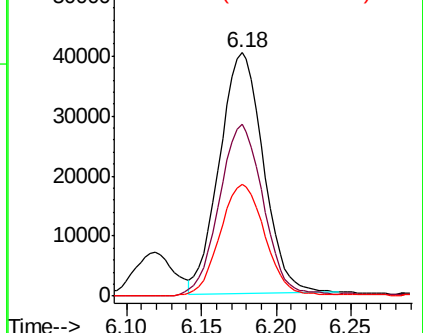
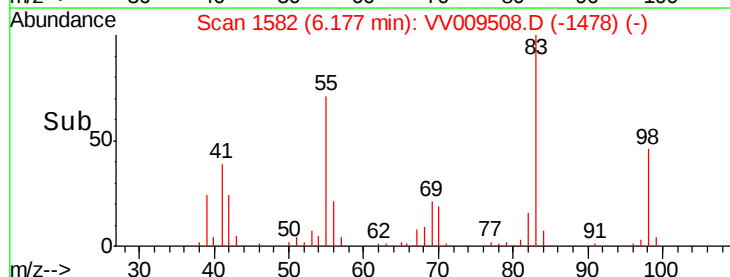


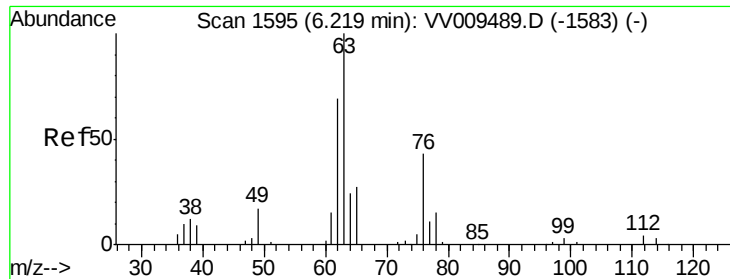
#36
 Methylcyclohexane
 Concen: 20.315 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Tgt Ion: 83 Resp: 82078
 Ion Ratio Lower Upper
 83 100
 55 72.2 58.8 88.2
 98 47.3 37.7 56.5



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

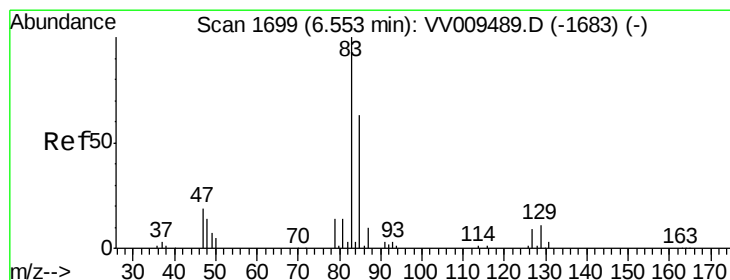
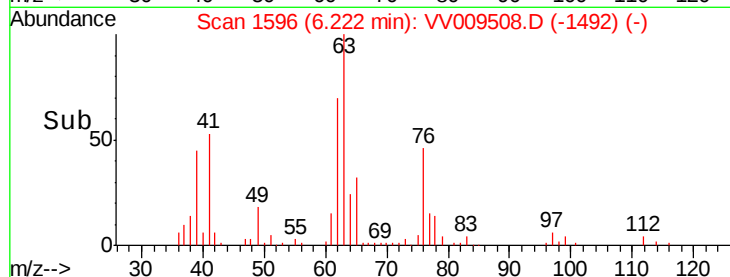
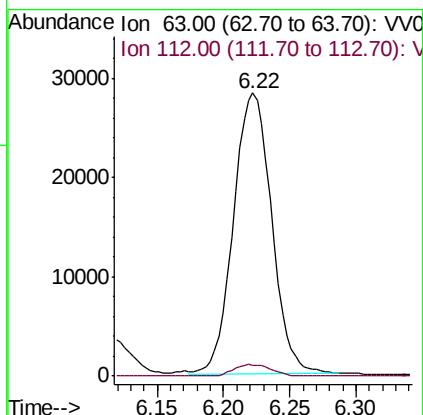
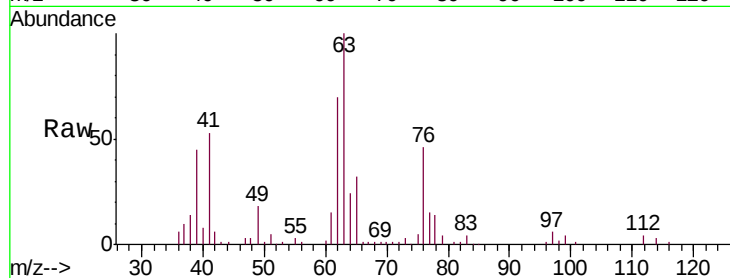




#40
 1,2-Dichloropropane
 Concen: 25.553 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

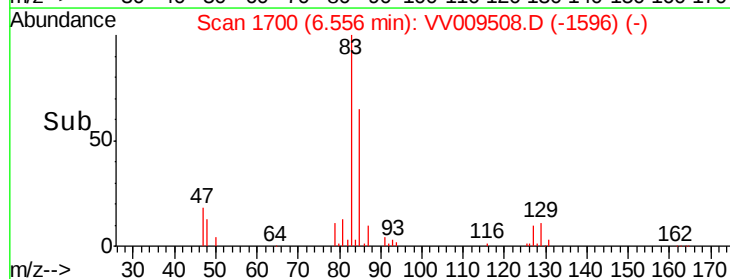
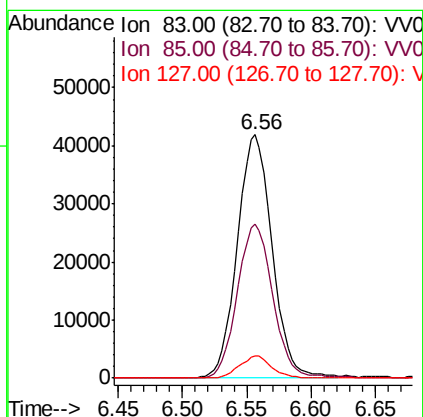
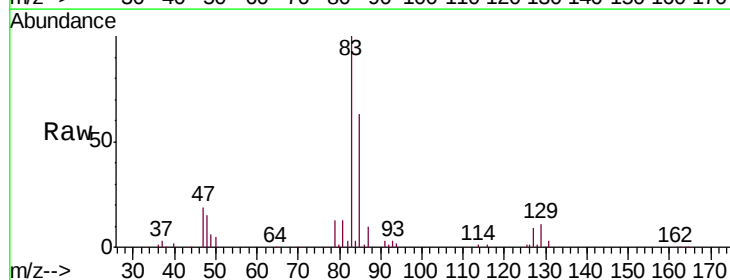
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

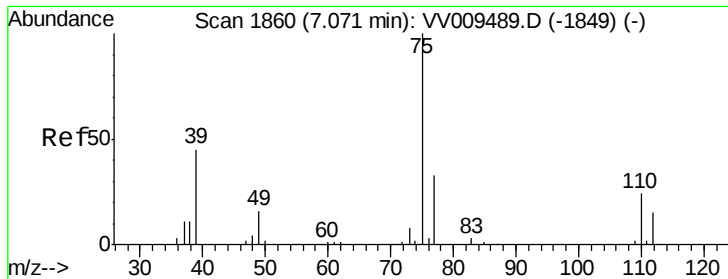
Tgt Ion: 63 Resp: 56861
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.4



#41
 Bromodichloromethane
 Concen: 26.305 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Tgt Ion: 83 Resp: 79006
 Ion Ratio Lower Upper
 83 100
 85 63.4 46.5 86.3
 127 9.3 7.2 10.8



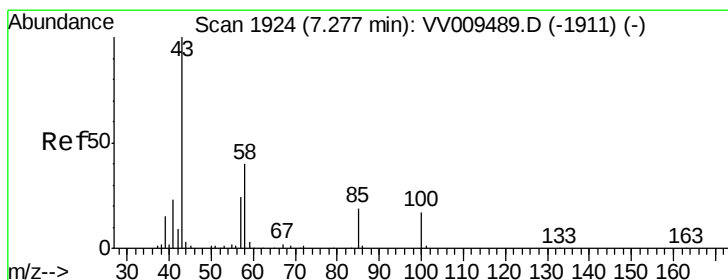
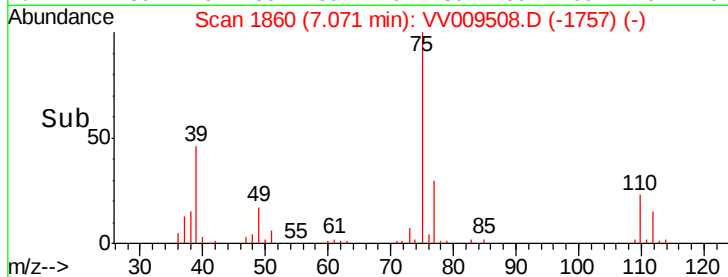
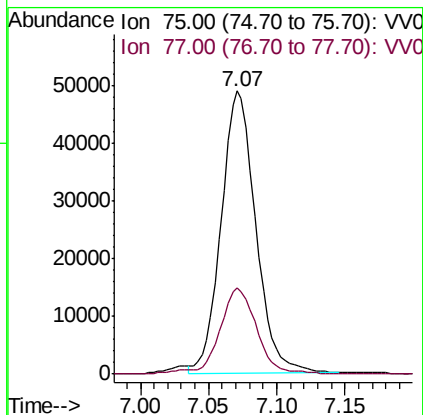
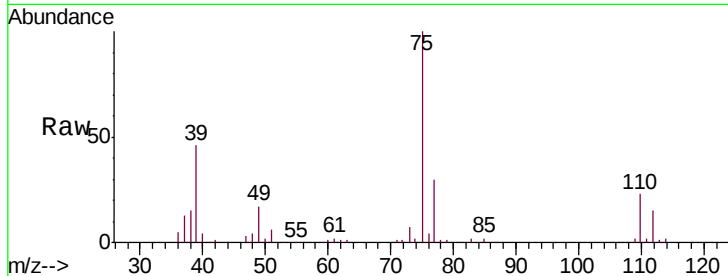


#42

cis-1,3-Dichloropropene
 Concen: 24.881 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02567

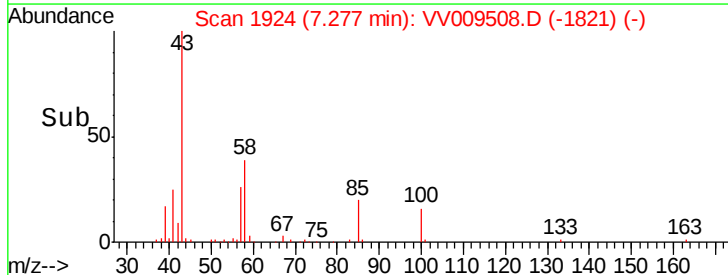
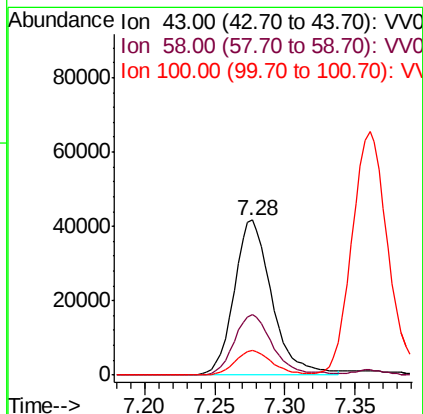
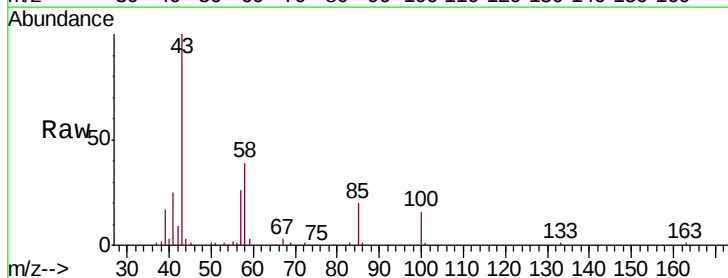
Tgt Ion: 75 Resp: 85954
 Ion Ratio Lower Upper
 75 100
 77 30.5 21.4 39.8

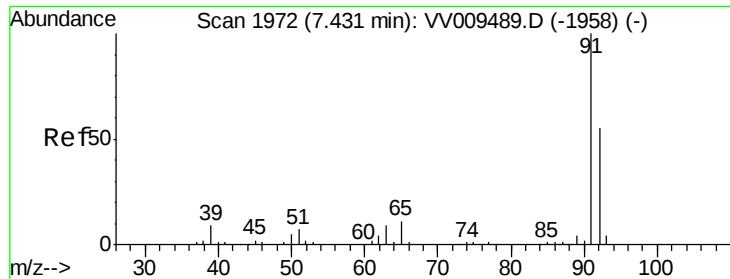


#43

4-Methyl-2-pentanone
 Concen: 44.568 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Tgt Ion: 43 Resp: 78177
 Ion Ratio Lower Upper
 43 100
 58 39.1 31.9 47.9
 100 15.8 12.8 19.2





#44

Toluene

Concen: 24.378 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

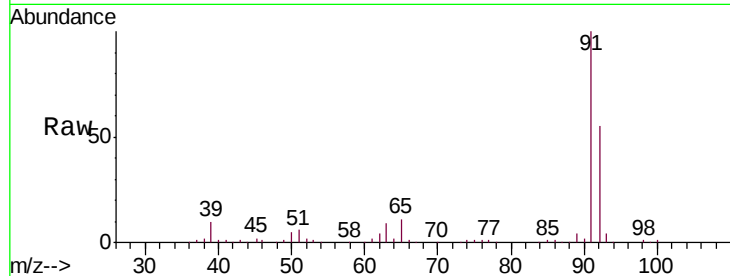
VSTD02567

Tgt Ion: 91 Resp: 237809

Ion Ratio Lower Upper

91 100

92 55.5 39.6 73.6



Abundance Ion 91.00 (90.70 to 91.70): VV009489.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009489.D (-1958) (-)

7.43

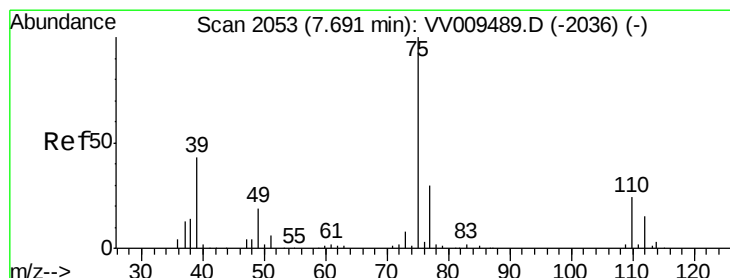
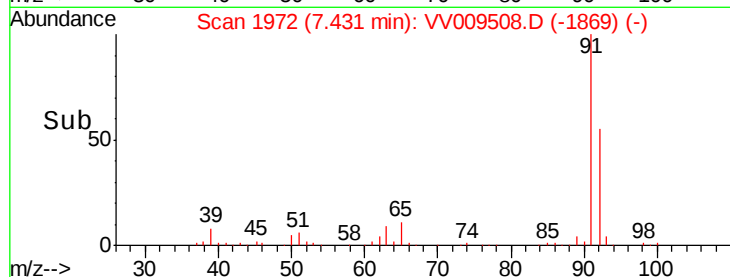
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 25.404 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009508.D

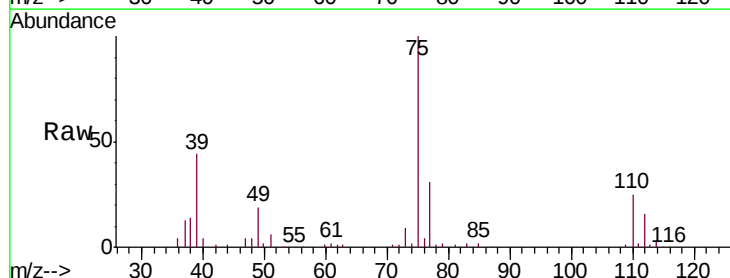
Acq: 06 Mar 2019 01:24

Tgt Ion: 75 Resp: 76644

Ion Ratio Lower Upper

75 100

77 31.4 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VV009489.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV009489.D (-2036) (-)

7.69

50000

40000

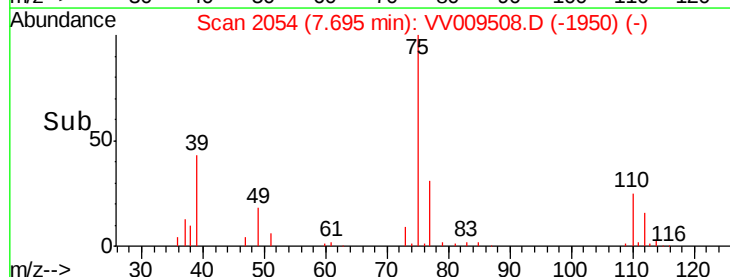
30000

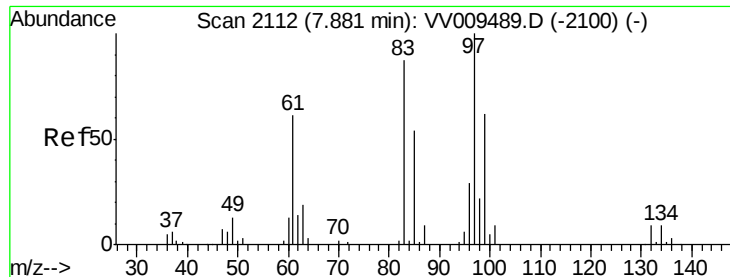
20000

10000

0

Time-->

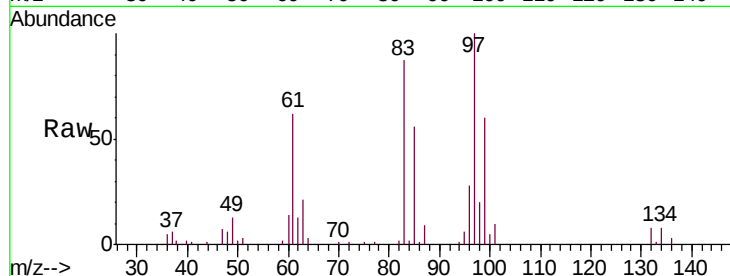




#46
 1,1,2-Trichloroethane
 Concen: 25.980 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

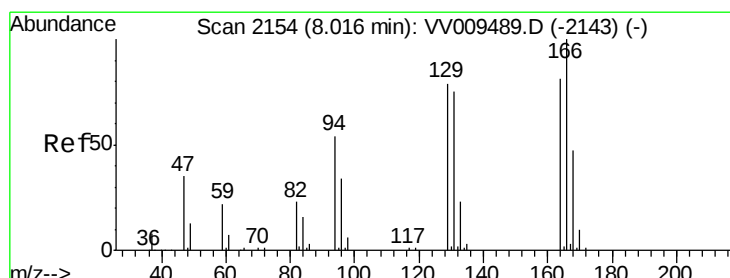
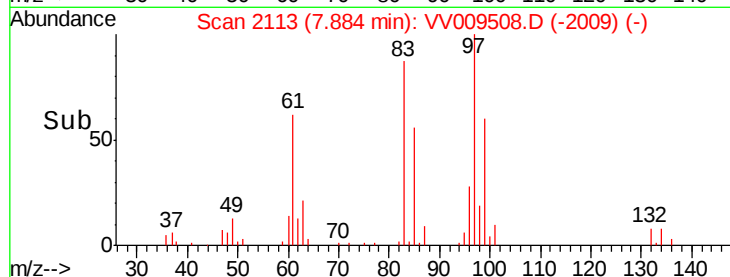
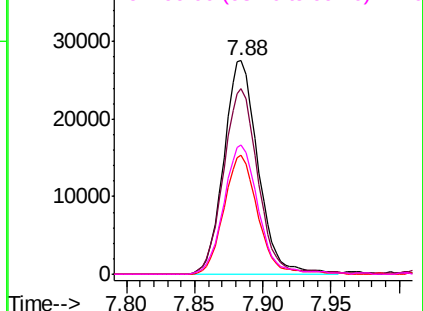
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

Tgt Ion:	97	Resp:	48028
Ion	Ratio	Lower	Upper
97	100		
83	86.7	63.8	118.6
85	55.5	39.5	73.4
99	60.3	45.9	85.3



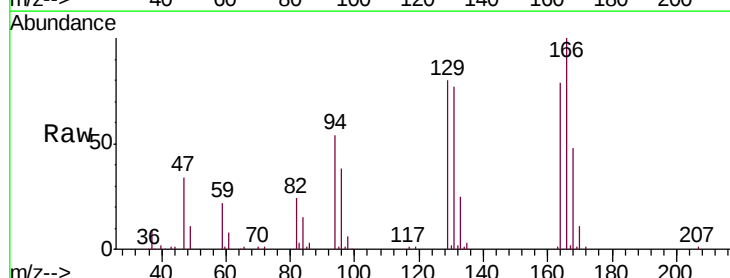
Abundance

Ion 97.00 (96.70 to 97.70): VV009489.D (-2100) (-)



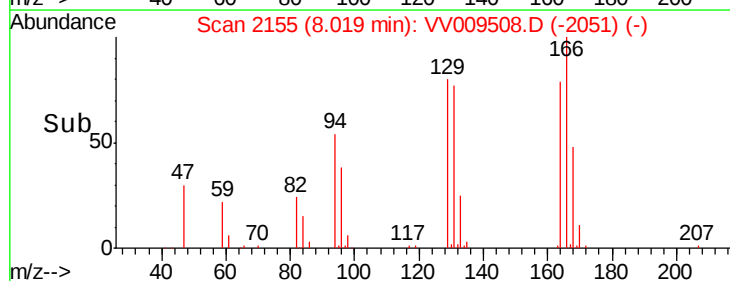
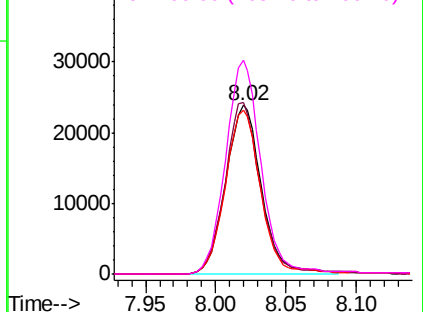
#47
 Tetrachloroethene
 Concen: 22.538 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

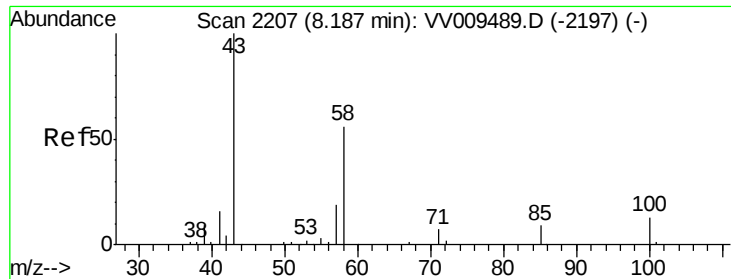
Tgt Ion:	164	Resp:	42397
Ion	Ratio	Lower	Upper
164	100		
129	101.8	67.7	125.7
131	97.4	67.5	125.3
166	126.6	81.6	151.6



Abundance

Ion 164.00 (163.70 to 164.70): VV009489.D (-2143) (-)

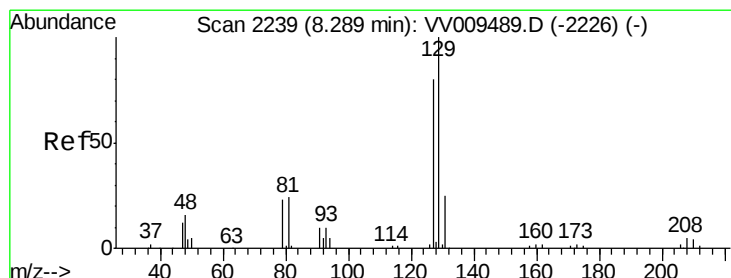
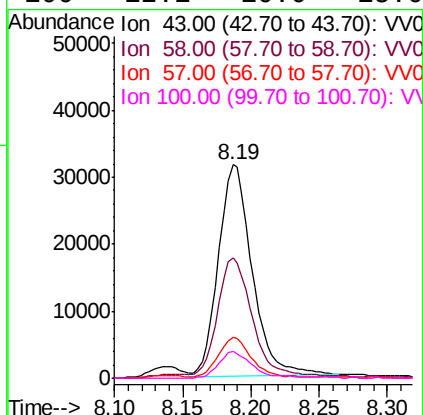
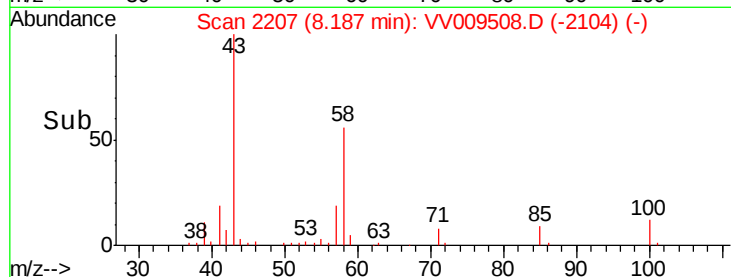
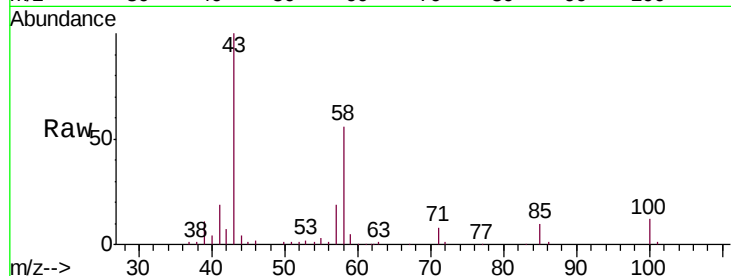




#49
2-Hexanone
Concen: 41.102 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

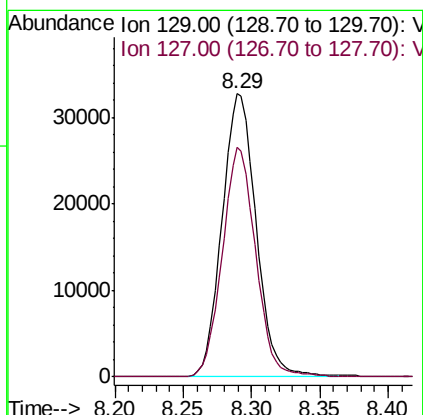
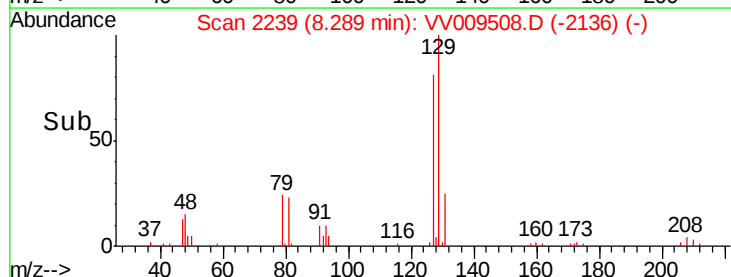
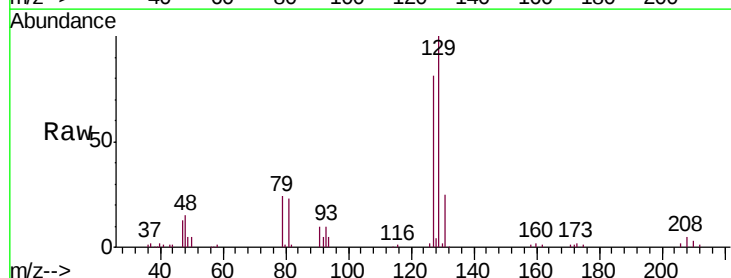
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

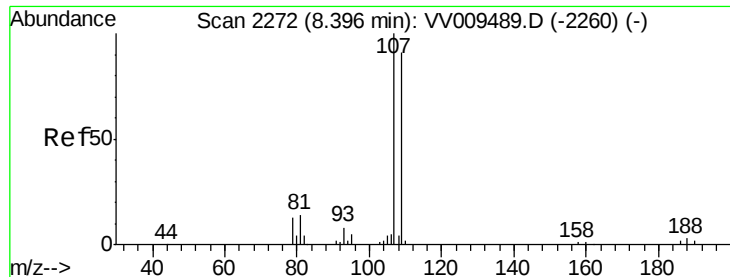
Tgt Ion: 43 Resp: 54518
Ion Ratio Lower Upper
43 100
58 57.2 46.3 69.5
57 18.9 15.8 23.6
100 12.1 10.0 15.0



#50
Dibromochloromethane
Concen: 25.494 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

Tgt Ion: 129 Resp: 57060
Ion Ratio Lower Upper
129 100
127 81.2 53.7 99.7

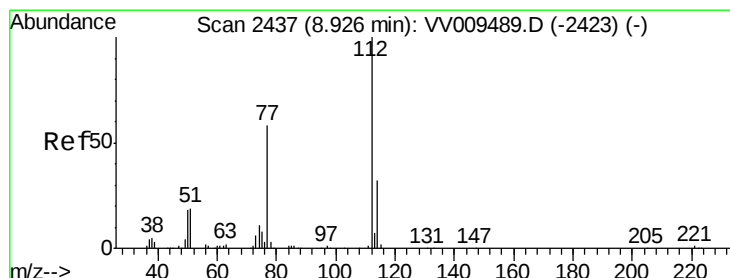
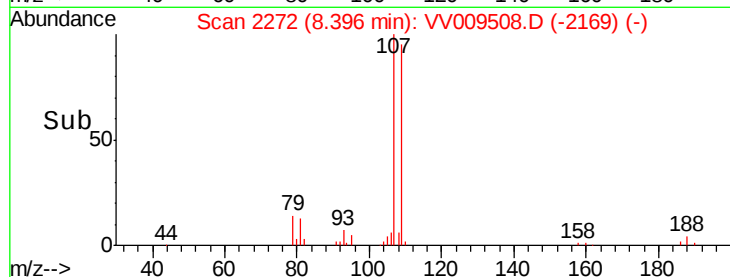
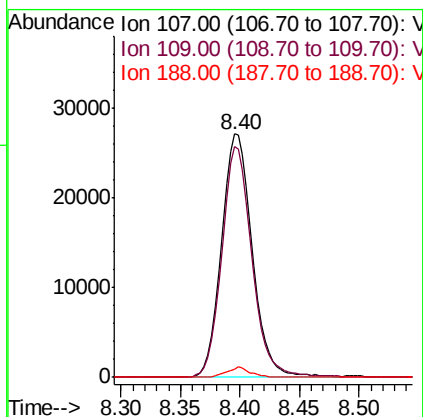
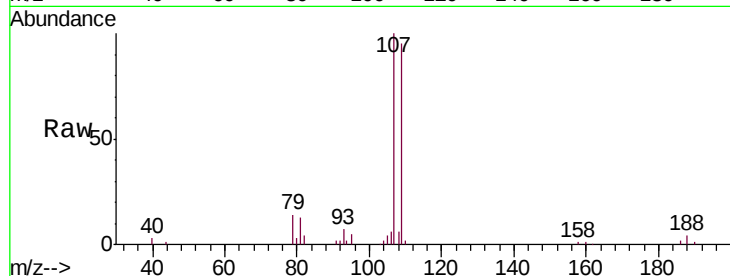




#51
 1,2-Dibromoethane
 Concen: 25.464 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

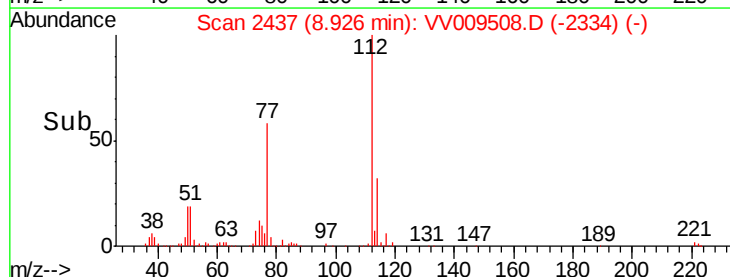
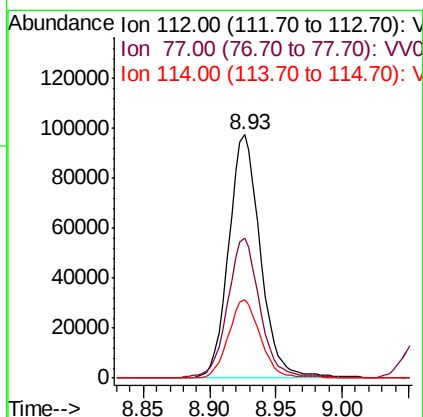
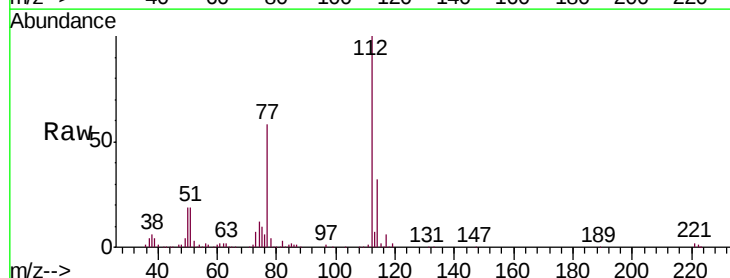
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

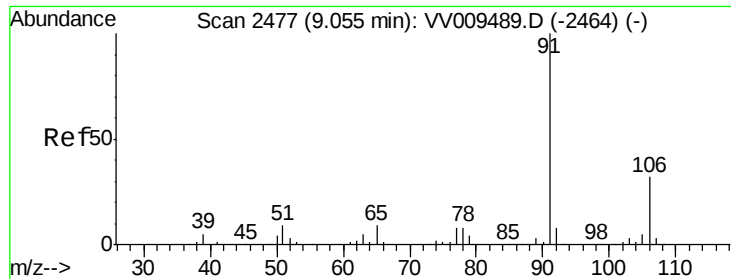
Tgt Ion:107 Resp: 48639
 Ion Ratio Lower Upper
 107 100
 109 95.0 65.6 121.8
 188 3.5 2.3 3.5#



#52
 Chlorobenzene
 Concen: 25.105 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Tgt Ion:112 Resp: 162326
 Ion Ratio Lower Upper
 112 100
 77 57.6 45.0 67.6
 114 32.1 22.9 42.5

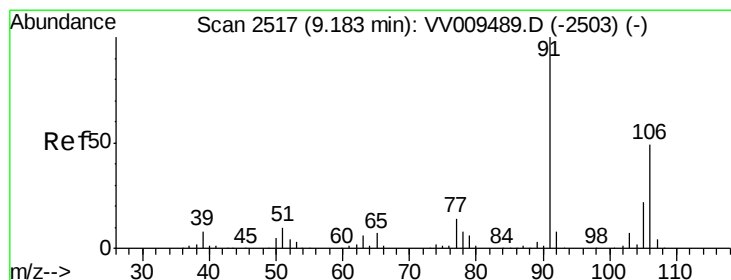
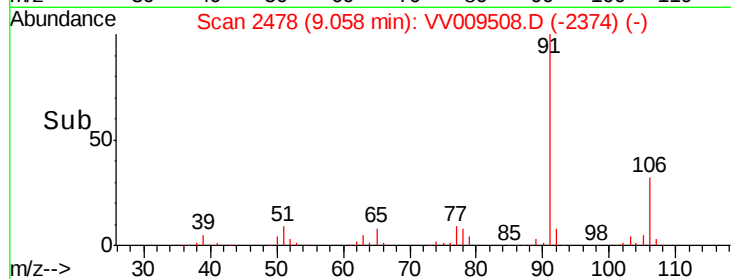
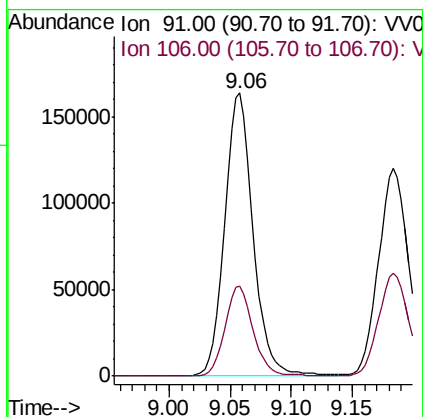
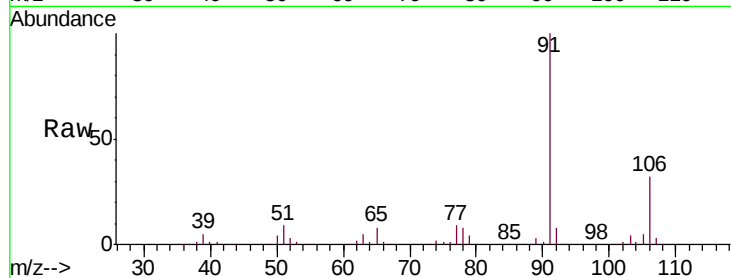




#53
Ethylbenzene
Concen: 24.010 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

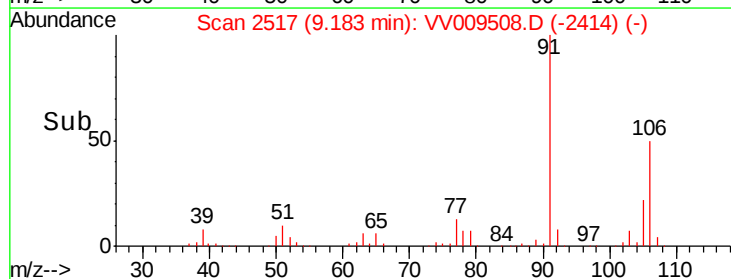
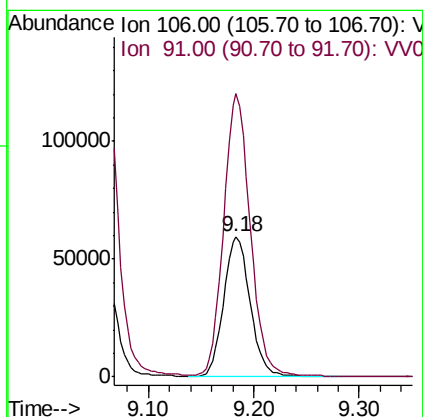
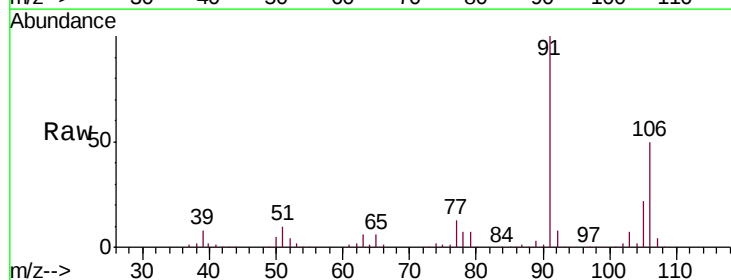
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

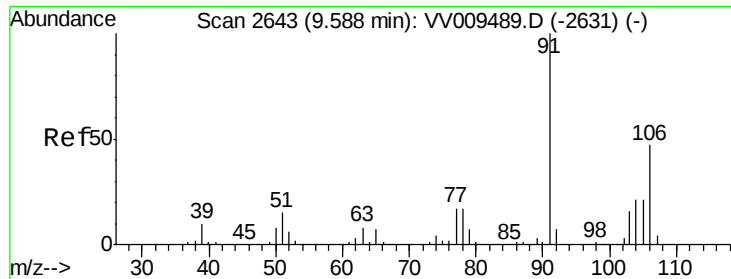
Tgt Ion: 91 Resp: 268020
Ion Ratio Lower Upper
91 100
106 31.7 23.0 42.6



#54
m,p-Xylene
Concen: 24.466 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV009508.D
Acq: 06 Mar 2019 01:24

Tgt Ion: 106 Resp: 103366
Ion Ratio Lower Upper
106 100
91 201.9 138.5 257.1





#55

o-xylene

Concen: 25.308 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

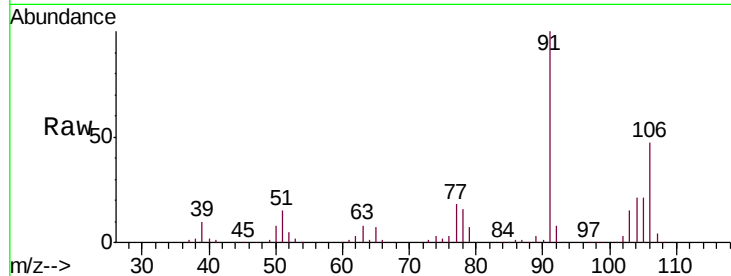
VSTD02567

Tgt Ion:106 Resp: 103104

Ion Ratio Lower Upper

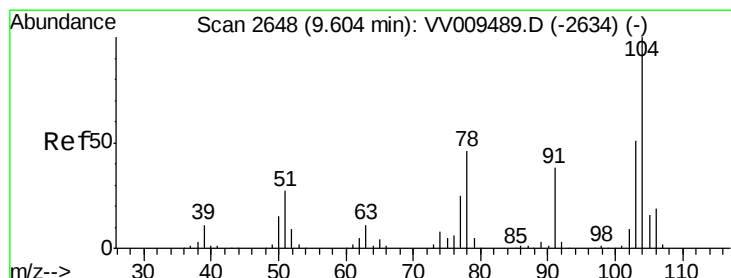
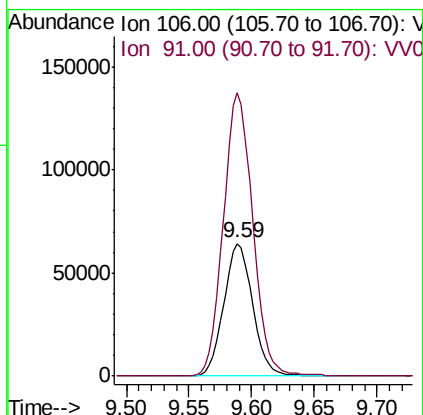
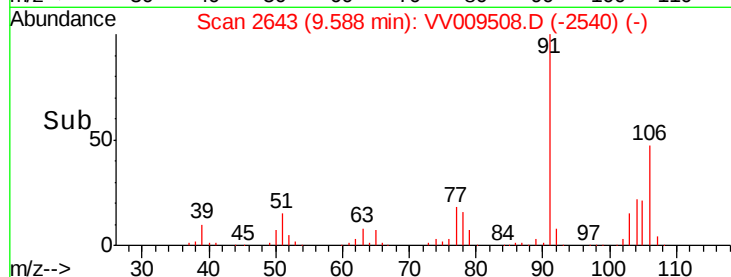
106 100

91 212.9 143.8 267.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 26.226 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009508.D

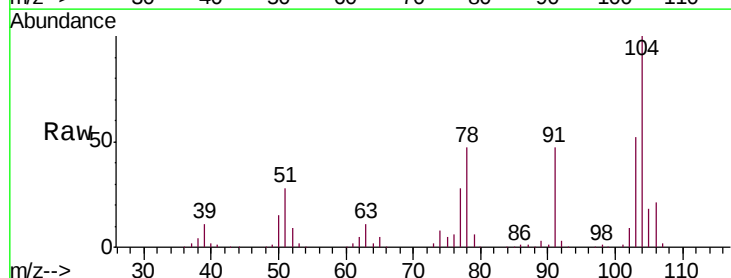
Acq: 06 Mar 2019 01:24

Tgt Ion:104 Resp: 175782

Ion Ratio Lower Upper

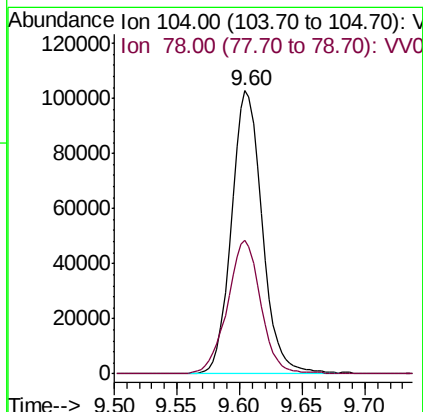
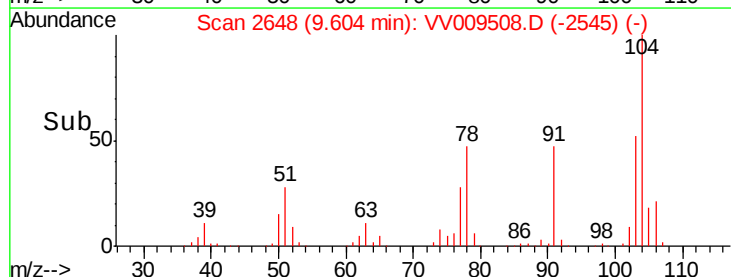
104 100

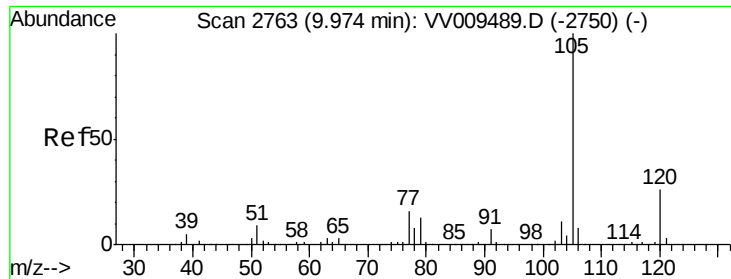
78 47.3 32.7 60.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.471 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

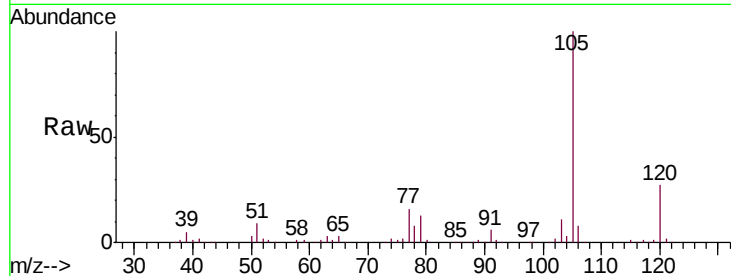
Tgt Ion: 105 Resp: 263748

Ion Ratio Lower Upper

105 100

120 26.3 21.4 32.2

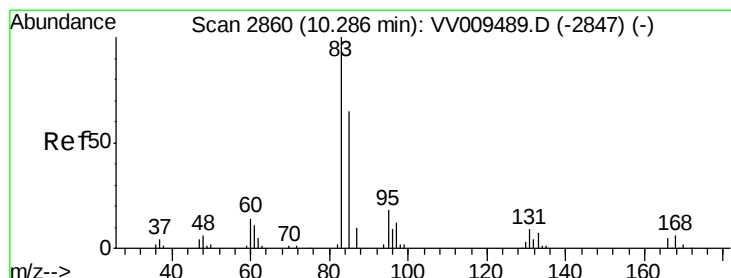
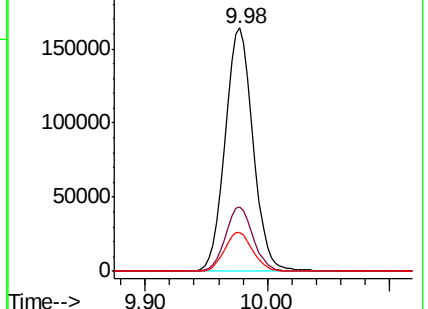
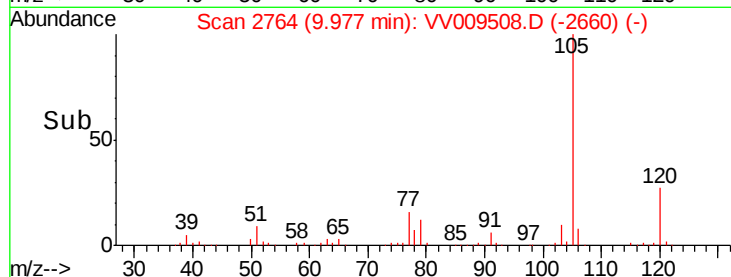
77 16.3 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): VV009489.D (-2750) (-)

Ion 120.00 (119.70 to 120.70): VV009489.D (-2750) (-)

Ion 77.00 (76.70 to 77.70): VV009489.D (-2750) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 25.044 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

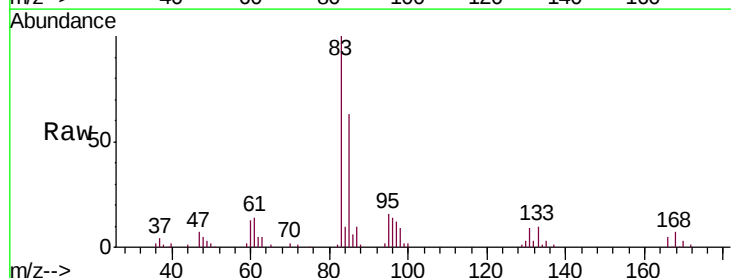
Tgt Ion: 83 Resp: 65375

Ion Ratio Lower Upper

83 100

85 63.4 44.7 83.1

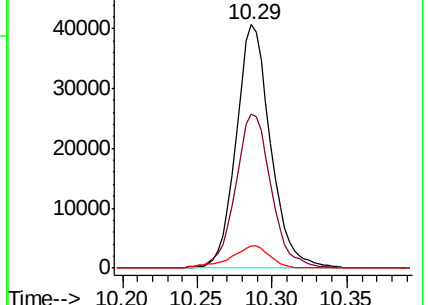
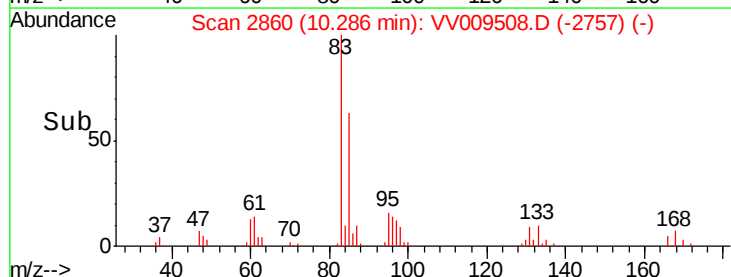
131 9.0 7.0 10.6

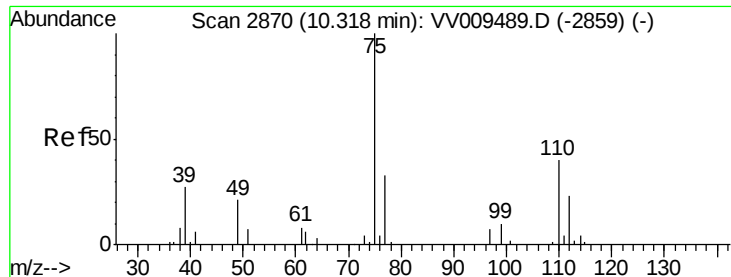


Abundance Ion 83.00 (82.70 to 83.70): VV009489.D (-2847) (-)

Ion 85.00 (84.70 to 85.70): VV009489.D (-2847) (-)

Ion 131.00 (130.70 to 131.70): VV009489.D (-2847) (-)

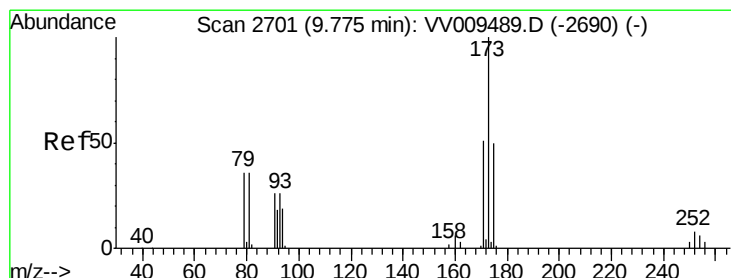
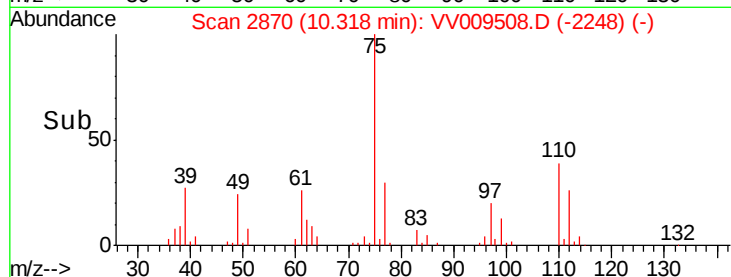
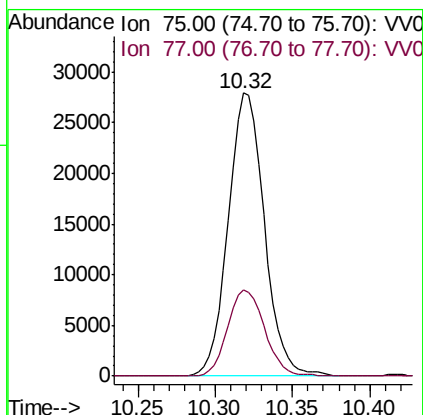
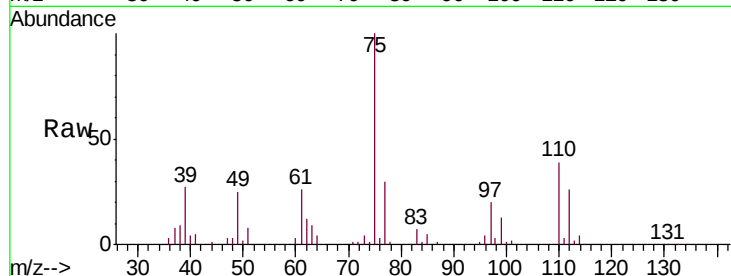




#59
 1,2,3-Trichloropropane
 Concen: 24.077 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

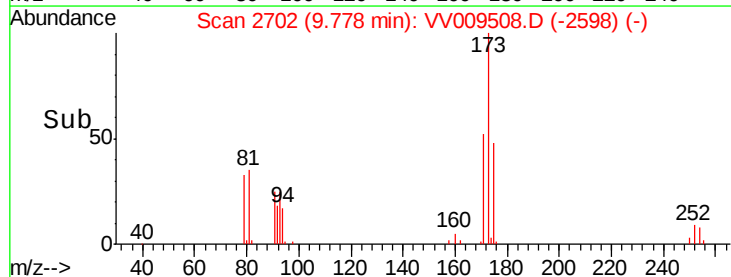
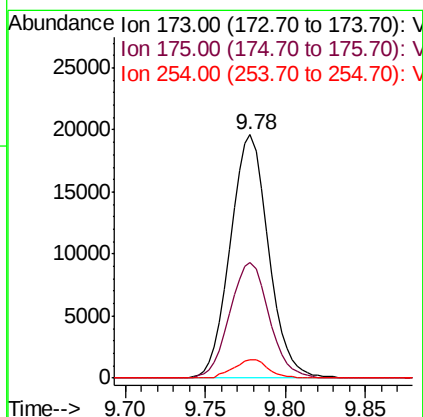
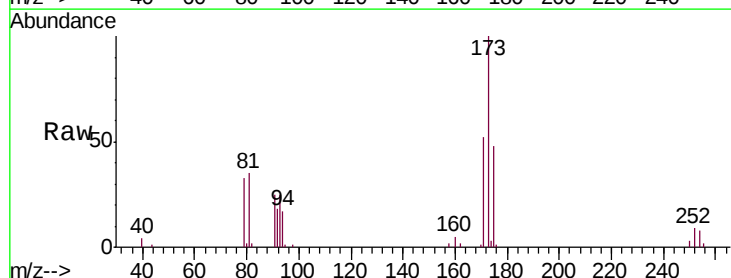
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

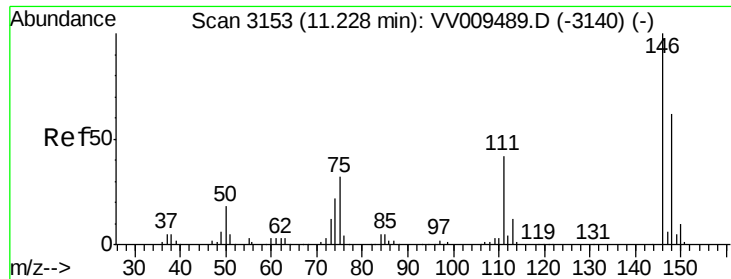
Tgt Ion: 75 Resp: 45307
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.9 38.9



#62
 Bromoform
 Concen: 23.911 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Tgt Ion: 173 Resp: 31985
 Ion Ratio Lower Upper
 173 100
 175 48.8 38.8 58.2
 254 6.9 5.8 8.8

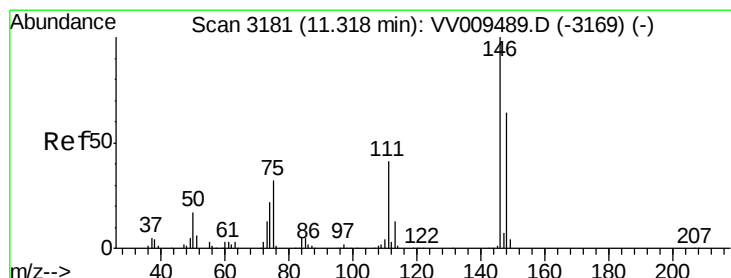
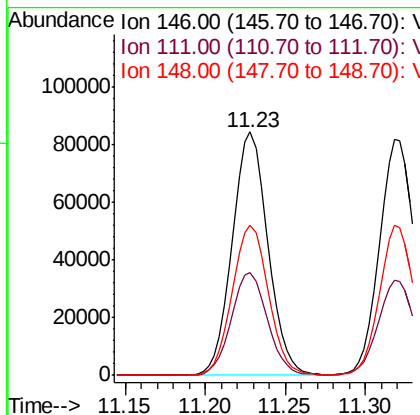
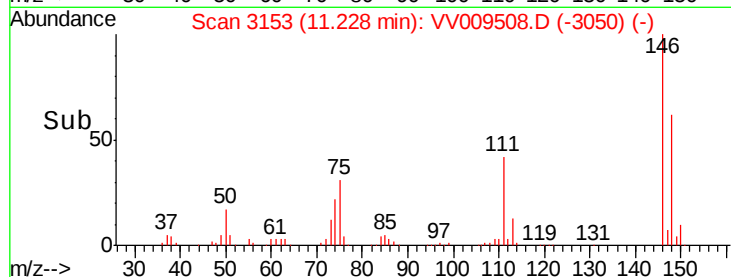
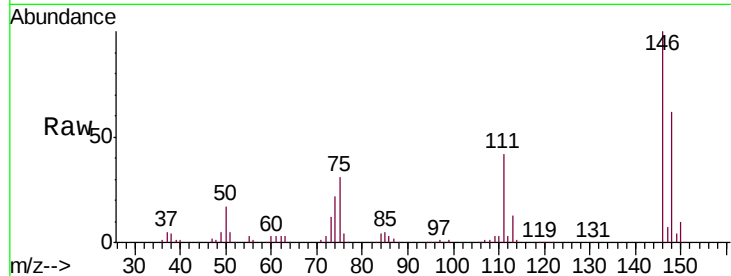




#63
 1,3-Dichlorobenzene
 Concen: 24.821 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

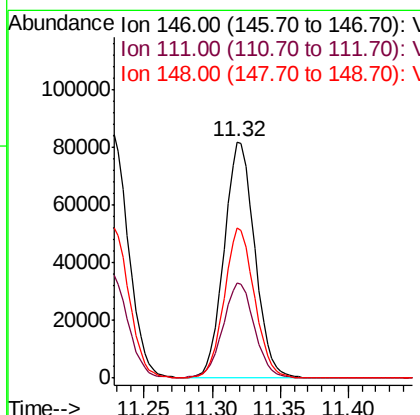
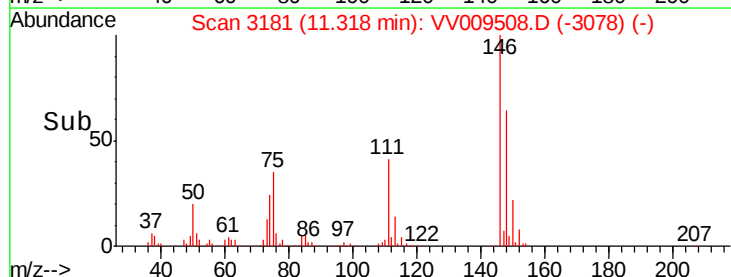
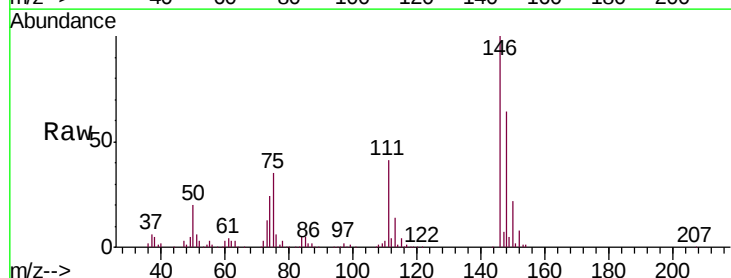
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

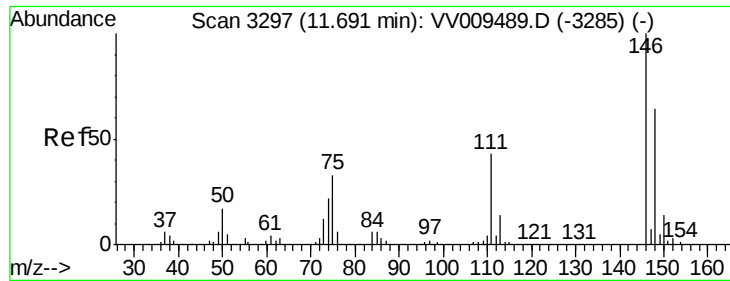
Tgt Ion:146 Resp: 127802
 Ion Ratio Lower Upper
 146 100
 111 42.1 29.6 55.0
 148 61.6 44.8 83.2



#64
 1,4-Dichlorobenzene
 Concen: 24.228 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Tgt Ion:146 Resp: 127480
 Ion Ratio Lower Upper
 146 100
 111 40.6 29.2 54.2
 148 63.6 43.0 79.8





#65

1,2-Dichlorobenzene

Concen: 25.194 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

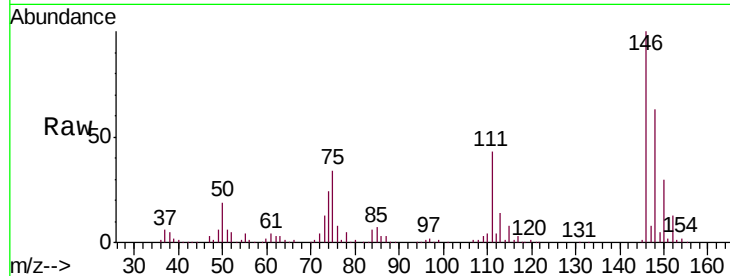
Tgt Ion:146 Resp: 120980

Ion Ratio Lower Upper

146 100

111 43.4 35.4 53.0

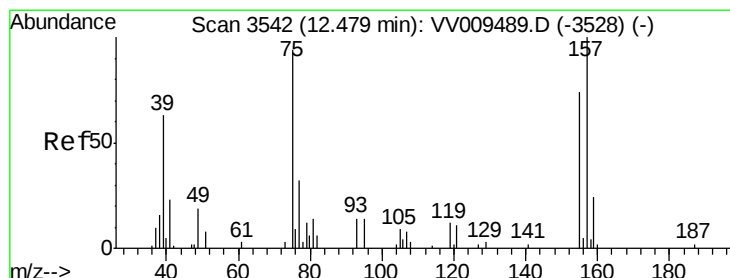
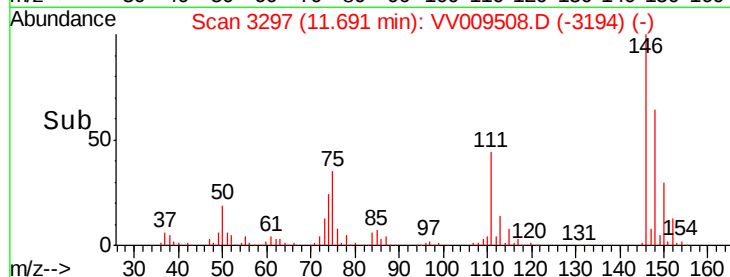
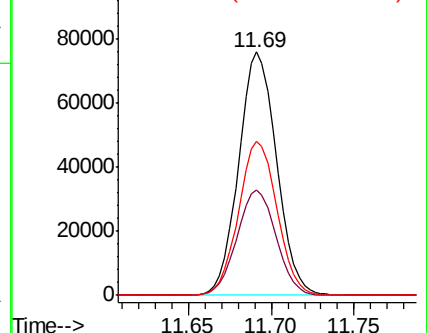
148 63.4 50.6 76.0



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: 21.696 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

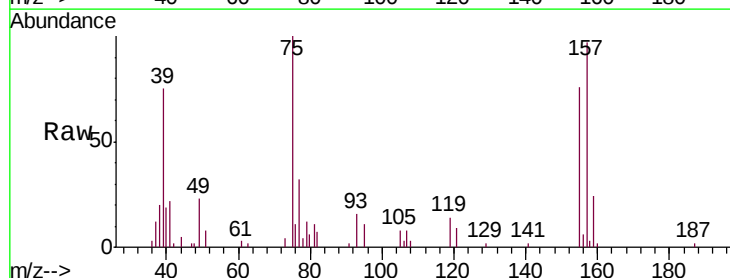
Tgt Ion: 75 Resp: 10435

Ion Ratio Lower Upper

75 100

157 97.4 81.0 121.4

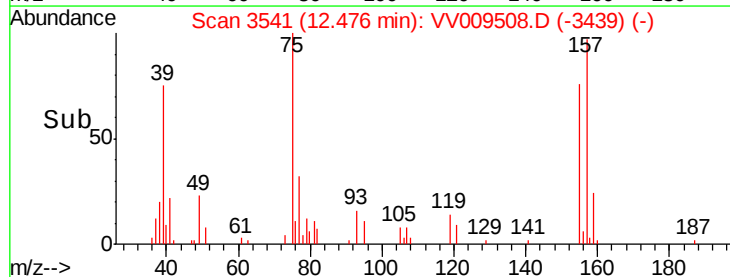
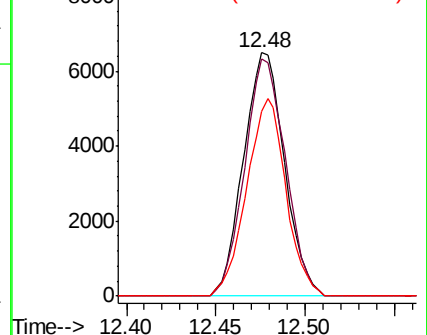
155 75.8 61.2 91.8

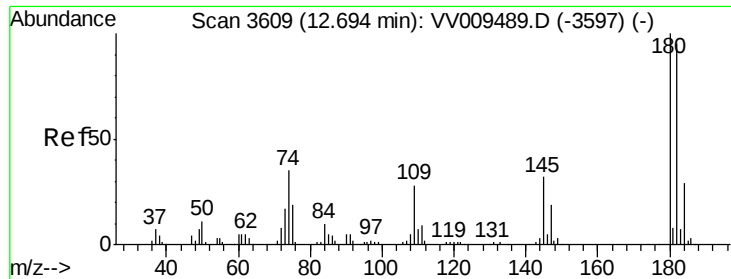


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

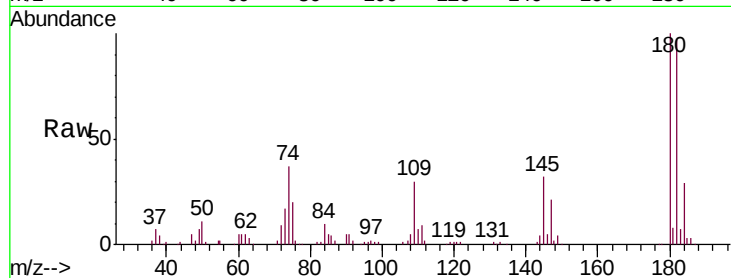




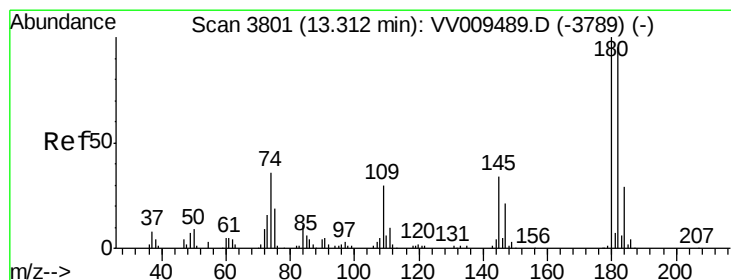
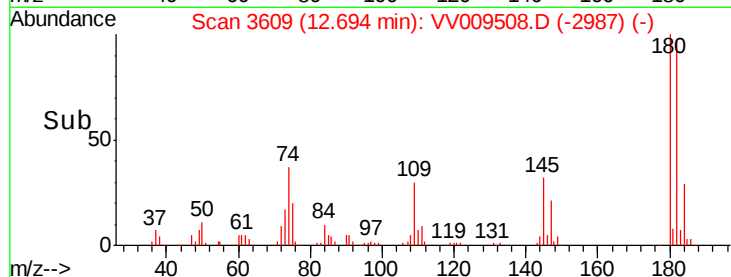
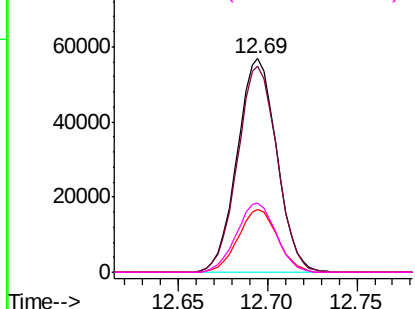
#67
 1,3,5-Trichlorobenzene
 Concen: 23.721 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

Tgt Ion:180 Resp: 87610
 Ion Ratio Lower Upper
 180 100
 182 96.7 75.4 113.2
 184 29.4 23.9 35.9
 145 32.4 26.0 39.0

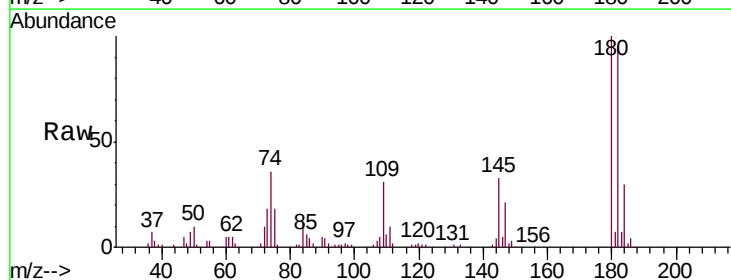


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

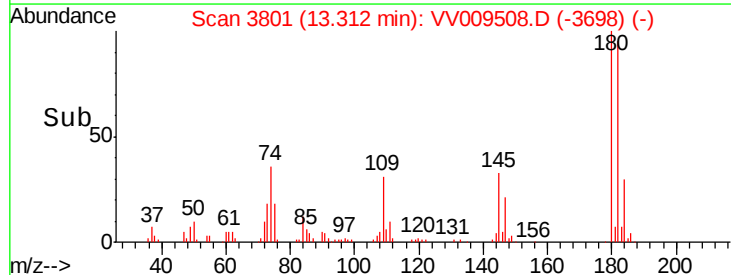
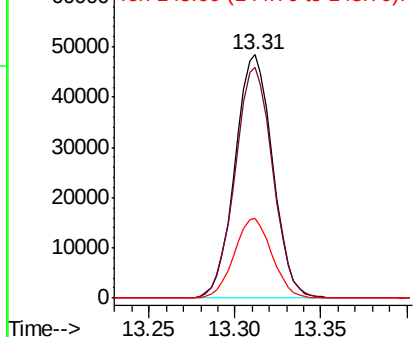


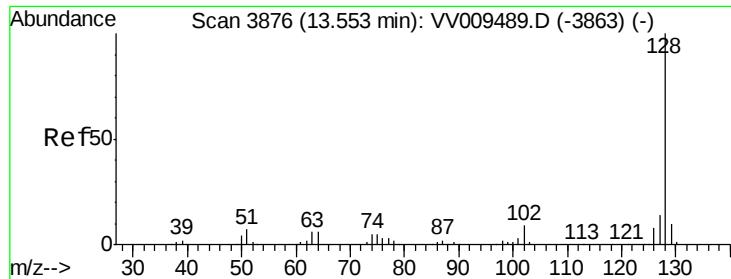
#68
 1,2,4-trichlorobenzene
 Concen: 24.944 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009508.D
 Acq: 06 Mar 2019 01:24

Tgt Ion:180 Resp: 73759
 Ion Ratio Lower Upper
 180 100
 182 95.5 75.9 113.9
 145 32.7 26.2 39.4



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





#69

Naphthalene

Concen: 24.728 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

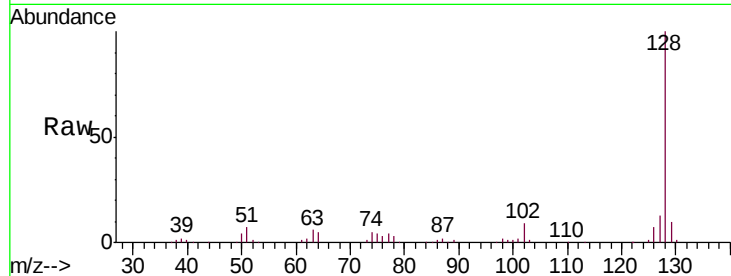
Tgt Ion:128 Resp: 154021

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

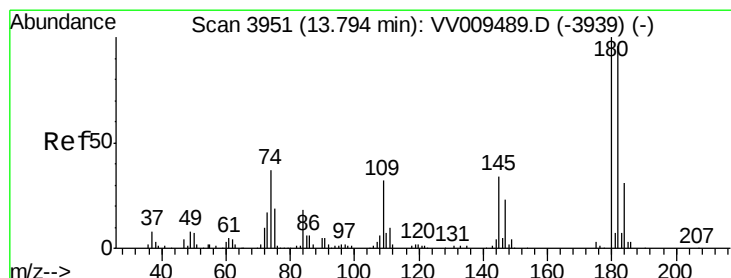
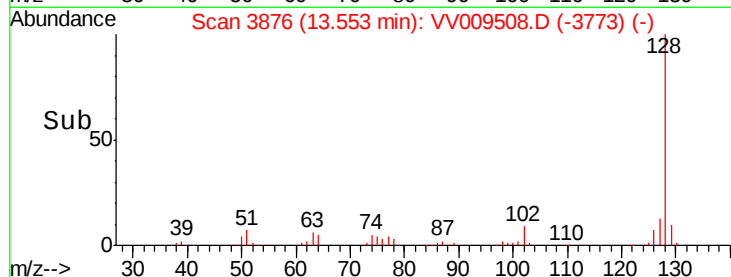
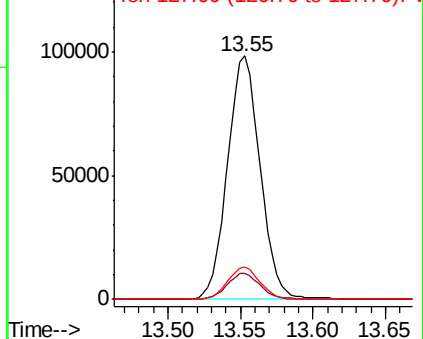
127 13.1 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.324 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009508.D

Acq: 06 Mar 2019 01:24

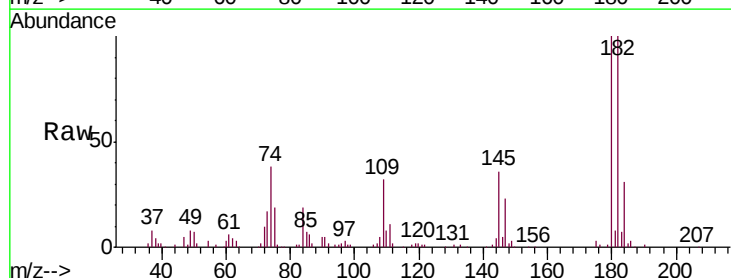
Tgt Ion:180 Resp: 68890

Ion Ratio Lower Upper

180 100

182 98.7 74.2 111.2

145 35.1 27.7 41.5



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

