

Data File : VV009328.D
Acq On : 22 Feb 2019 13:53
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Quant Time: Feb 23 00:22:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 22 04:53:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	145826	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	137864	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	68575	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	43488	22.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.68%
7) Chloroethane-d5	1.58	69	53781	23.43	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.72%
10) 1,1-Dichloroethene-d2	2.13	63	115966	24.31	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	97.24%
20) 2-Butanone-d5	3.95	46	24217	35.67	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	71.34%
24) Chloroform-d	4.40	84	70705	20.88	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	83.52%
26) 1,2-Dichloroethane-d4	5.08	65	39602	21.57	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	86.28%
29) Benzene-d6	5.10	84	152048	21.99	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.96%
33) 1,2-Dichloropropane-d6	6.12	67	45316	22.27	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.08%
37) Toluene-d8	7.36	98	144606	21.97	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	87.88%
38) trans-1,3-Dichloropropene-	7.66	79	22246	21.29	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.16%
39) 2-Hexanone-d5	8.14	63	20306	35.88	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	71.76%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	47296	21.26	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	85.04%
61) 1,2-Dichlorobenzene-d4	11.67	152	55010	21.84	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	87.36%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	39222	23.044	ug/L	98
3) Chloromethane	1.25	50	56113	26.984	ug/L	99
5) Vinyl chloride	1.32	62	66209	28.077	ug/L	97
6) Bromomethane	1.53	94	49838	22.710	ug/L	99
8) Chloroethane	1.60	64	61800	31.048	ug/L	99
9) Trichlorofluoromethane	1.77	101	123017	27.710	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	68018	26.791	ug/L	97
12) 1,1-Dichloroethene	2.14	96	58753	27.460	ug/L	95
13) Acetone	2.21	43	28140	42.397	ug/L	94
14) Carbon disulfide	2.32	76	137303	23.982	ug/L	97
15) Methyl Acetate	2.47	43	19514	20.163	ug/L	94
16) Methylene chloride	2.54	84	45241	20.509	ug/L	98
17) Methyl tert-butyl Ether	2.81	73	108364	22.865	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	44161	22.912	ug/L	95
19) 1,1-Dichloroethane	3.23	63	77413	24.180	ug/L	98
21) 2-Butanone	4.03	43	31579	41.531	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	49326	23.427	ug/L	98

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	22222	23.061	ug/L	94
25) Chloroform	4.42	83	79425	23.315	ug/L	97
27) 1,2-Dichloroethane	5.18	62	52861	22.915	ug/L	98
30) Cyclohexane	4.72	56	77210	24.160	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	70165	22.536	ug/L	98
32) Carbon tetrachloride	4.87	117	58340	22.174	ug/L	98
34) Benzene	5.14	78	183129	24.294	ug/L	100
35) Trichloroethene	5.96	95	48768	23.259	ug/L	99
36) Methylcyclohexane	6.17	83	86137	23.486	ug/L	99
40) 1,2-Dichloropropane	6.22	63	43188	23.605	ug/L #	95
41) Bromodichloromethane	6.55	83	59759	22.934	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	74859	24.109	ug/L	99
43) 4-Methyl-2-pentanone	7.28	43	66917	43.570	ug/L	98
44) Toluene	7.43	91	201884	24.147	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	62034	22.816	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	37466	22.996	ug/L	98
47) Tetrachloroethene	8.02	164	40046	24.437	ug/L	98
49) 2-Hexanone	8.19	43	51604	43.689	ug/L	98
50) Dibromochloromethane	8.29	129	44829	22.820	ug/L	100
51) 1,2-Dibromoethane	8.40	107	38081	23.304	ug/L	99
52) Chlorobenzene	8.93	112	131794	24.209	ug/L	98
53) Ethylbenzene	9.05	91	230291	24.382	ug/L	100
54) m,p-Xylene	9.18	106	88274	23.952	ug/L	96
55) o-xylene	9.59	106	86895	25.119	ug/L	96
56) Styrene	9.60	104	146883	24.743	ug/L	97
57) Isopropylbenzene	9.97	105	231501	24.174	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	51238	22.286	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	36037	21.874	ug/L	99
62) Bromoform	9.77	173	27207	21.460	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	102929	23.366	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	101043	23.011	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	97249	23.544	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	8200	17.876	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	76162	23.894	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	60753	23.359	ug/L	98
69) Naphthalene	13.55	128	117644	21.104	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	54049	22.518	ug/L	96

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

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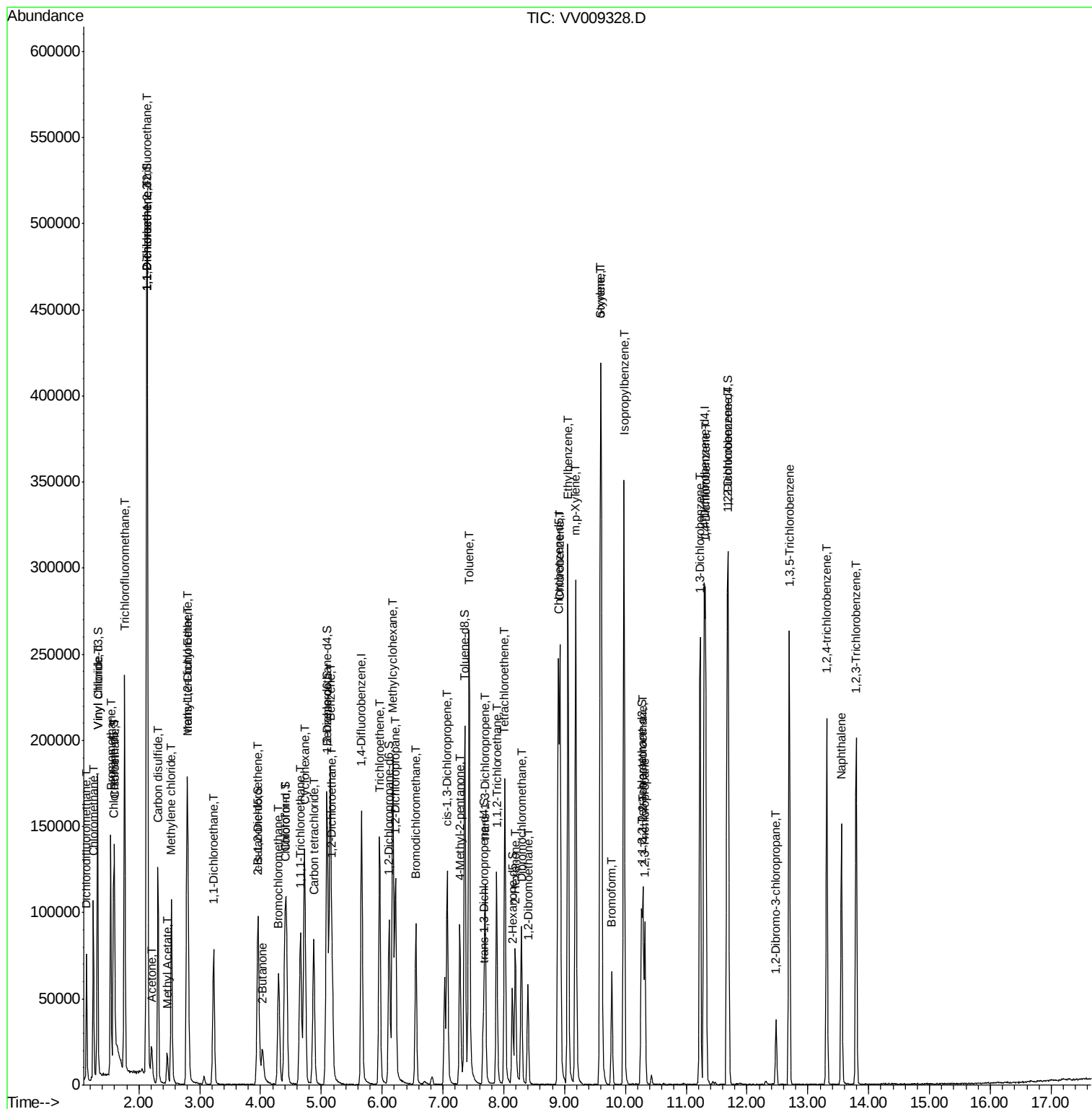
Quant Time: Feb 23 00:22:04 2019

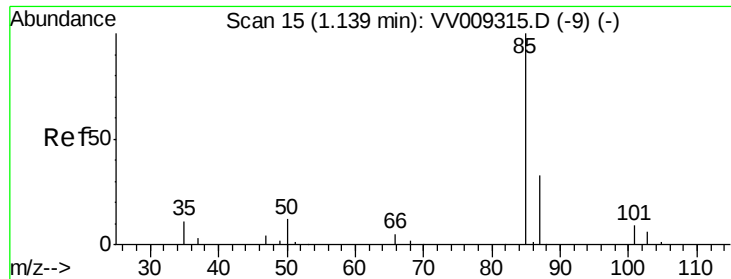
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM022019S.M

Quant Title : VOC Analysis

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.044 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

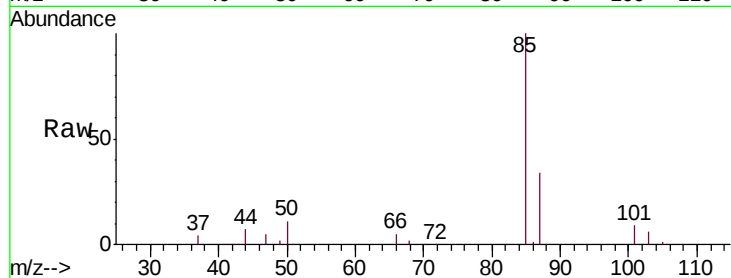
VSTD02577

Tgt Ion: 85 Resp: 39222

Ion Ratio Lower Upper

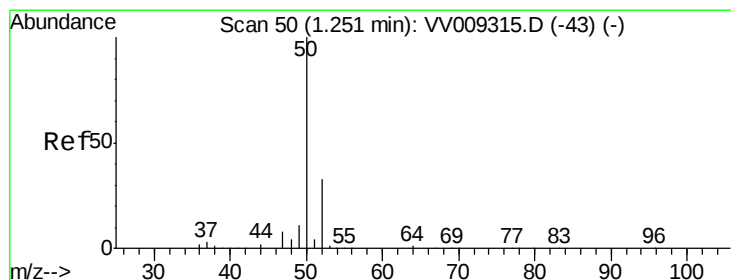
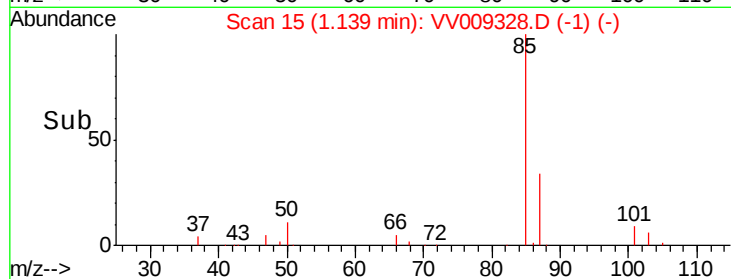
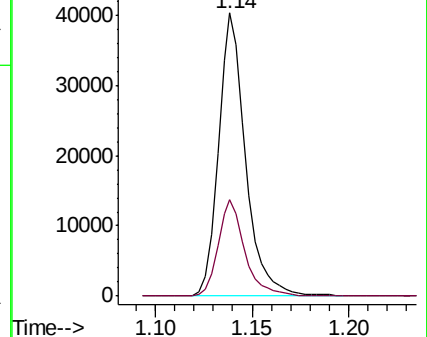
85 100

87 33.5 24.2 45.0



Abundance Ion 85.00 (84.70 to 85.70): VV009315.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV009315.D (-9) (-)



#3

Chloromethane

Concen: 26.984 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009328.D

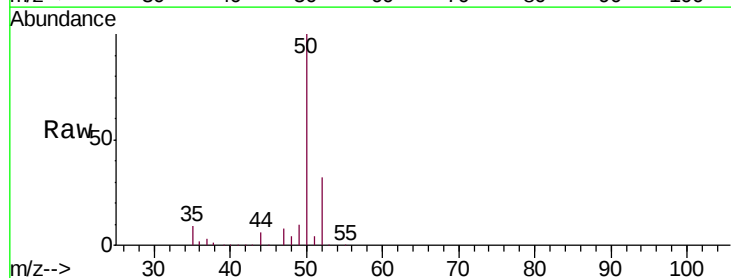
Acq: 22 Feb 2019 13:53

Tgt Ion: 50 Resp: 56113

Ion Ratio Lower Upper

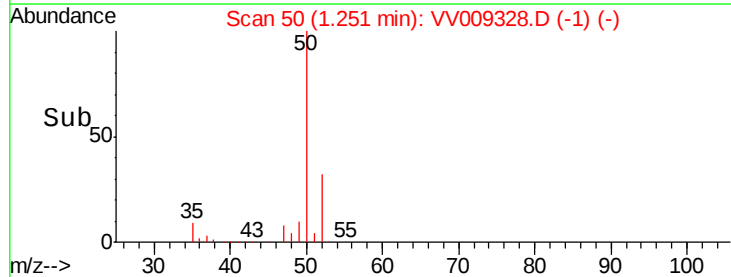
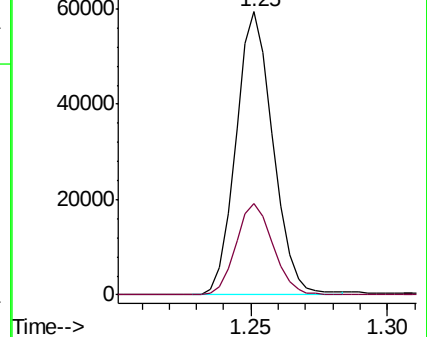
50 100

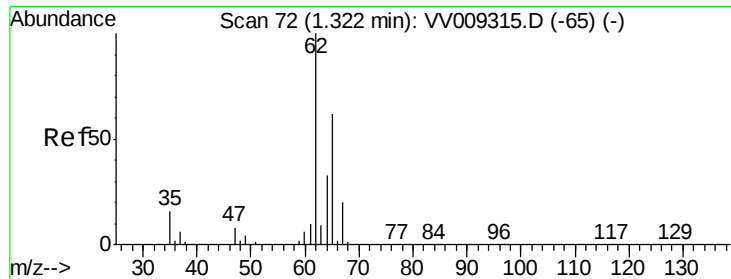
52 32.2 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV009315.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009315.D (-43) (-)





#5

Vinyl chloride

Concen: 28.077 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

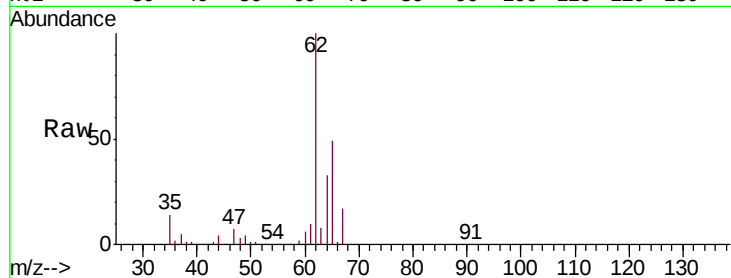
VSTD02577

Tgt Ion: 62 Resp: 66209

Ion Ratio Lower Upper

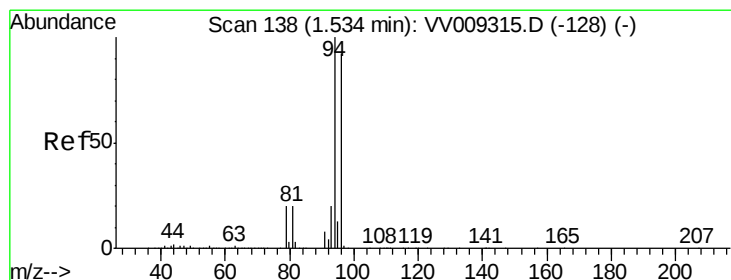
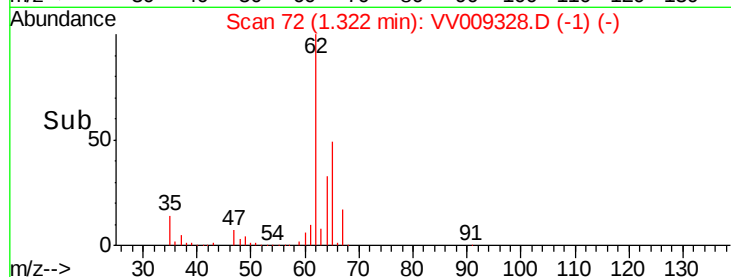
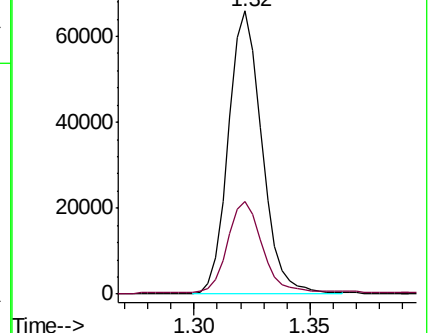
62 100

64 32.9 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VV009315.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009315.D (-65) (-)



#6

Bromomethane

Concen: 22.710 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV009328.D

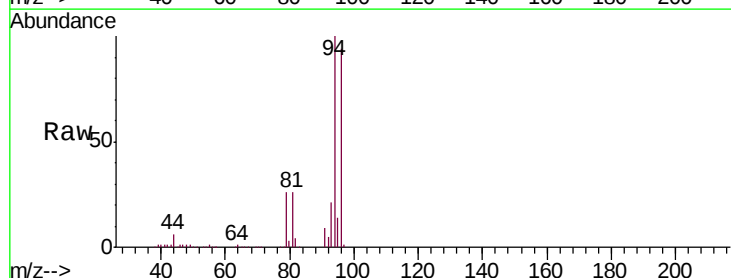
Acq: 22 Feb 2019 13:53

Tgt Ion: 94 Resp: 49838

Ion Ratio Lower Upper

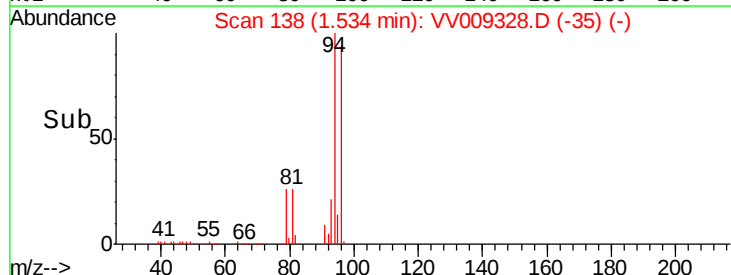
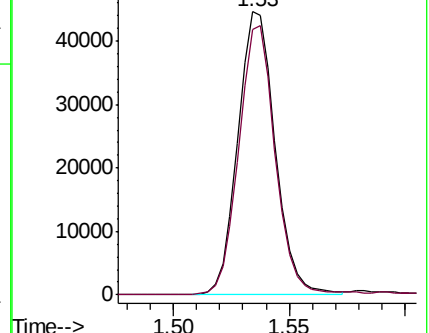
94 100

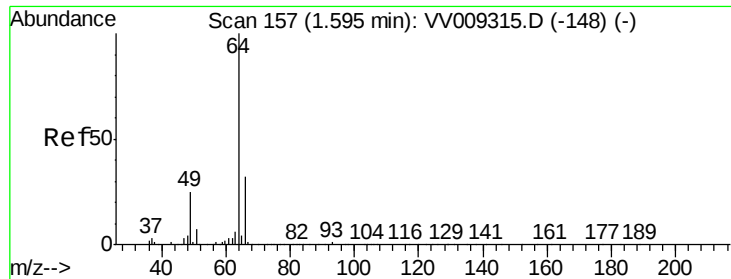
96 92.7 9.4 178.6



Abundance Ion 94.00 (93.70 to 94.70): VV009315.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VV009315.D (-128) (-)

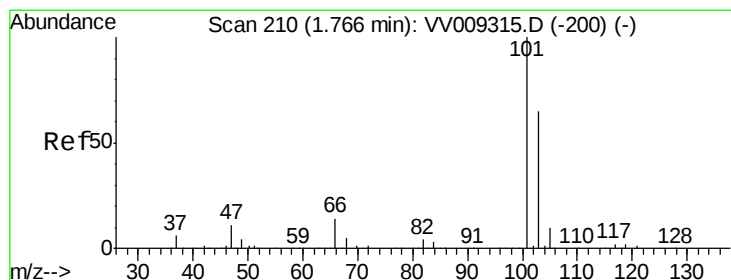
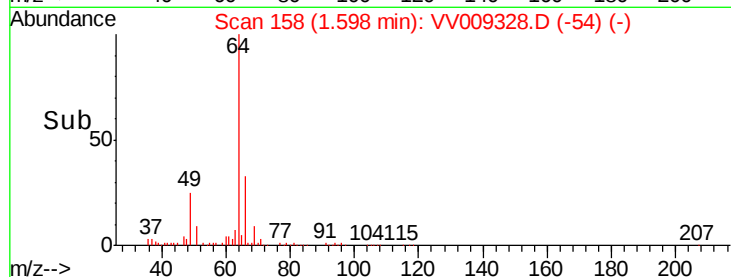
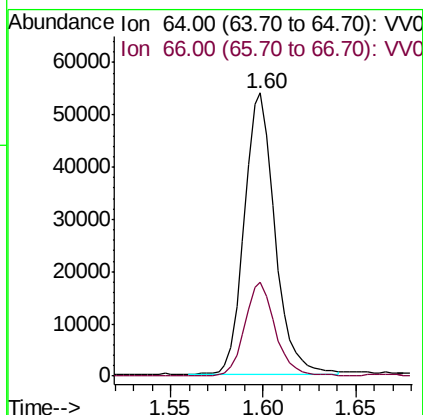
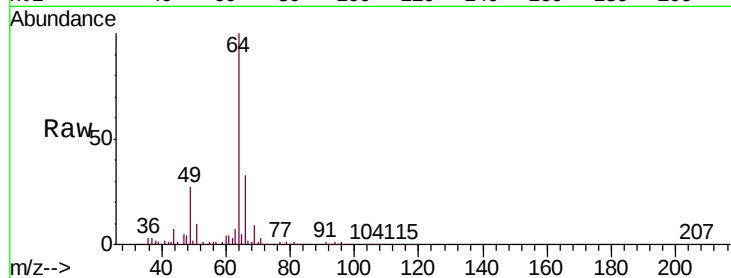




#8
Chloroethane
Concen: 31.048 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

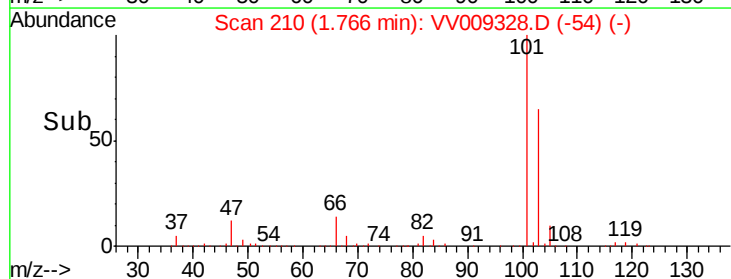
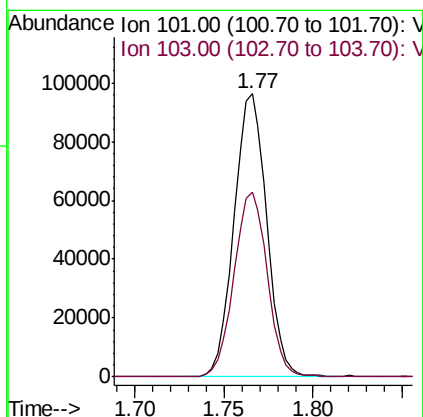
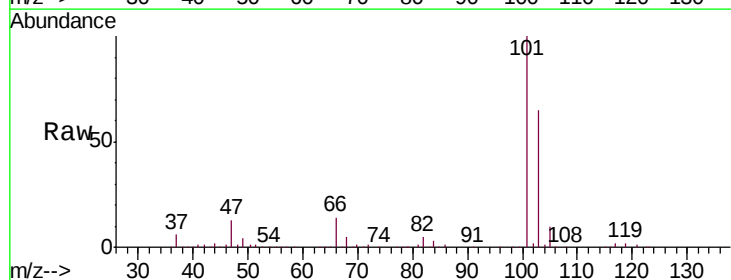
Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

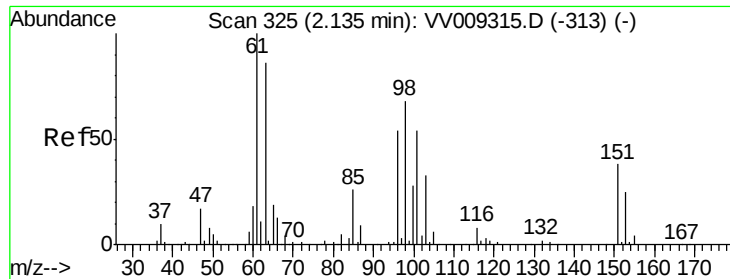
Tgt Ion: 64 Resp: 61800
Ion Ratio Lower Upper
64 100
66 33.2 22.9 42.5



#9
Trichlorofluoromethane
Concen: 27.710 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Tgt Ion: 101 Resp: 123017
Ion Ratio Lower Upper
101 100
103 66.7 45.4 84.4





#11

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

Concen: 26.791 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampled :

VSTD02577

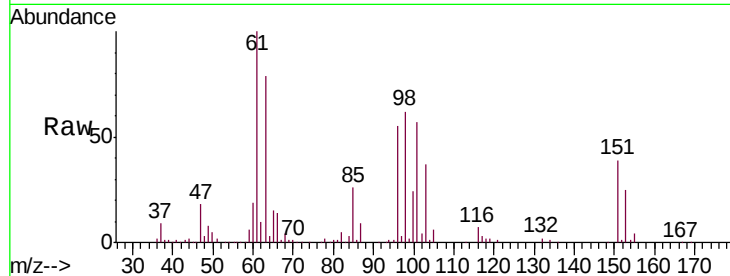
Tgt Ion:101 Resp: 68018

Ion Ratio Lower Upper

101 100

85 47.2 39.1 58.7

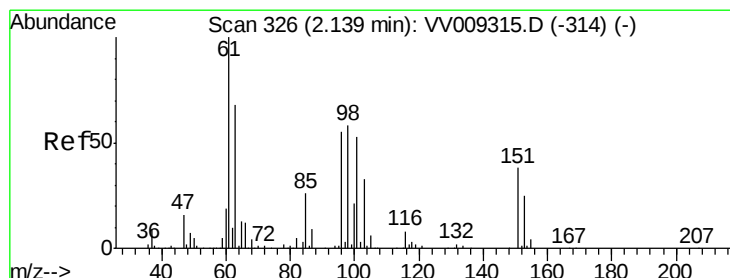
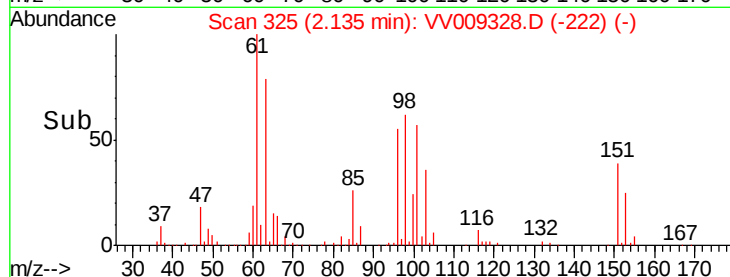
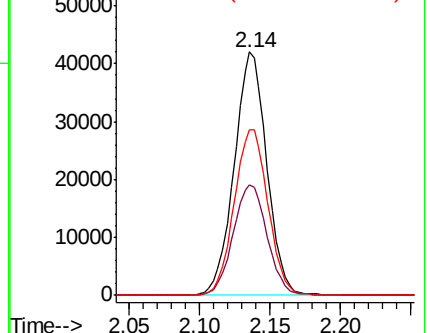
151 70.6 58.5 87.7



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: 27.460 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

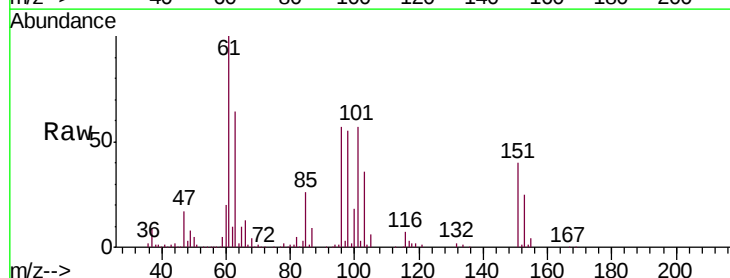
Tgt Ion: 96 Resp: 58753

Ion Ratio Lower Upper

96 100

61 175.2 123.3 228.9

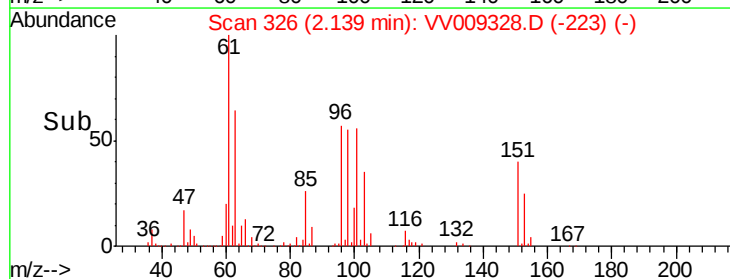
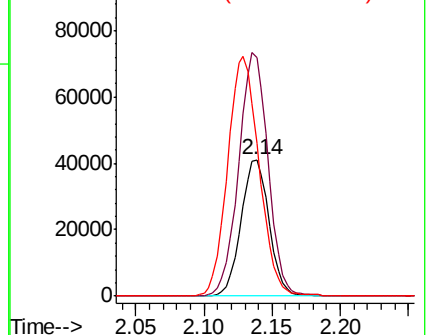
63 112.4 88.4 164.2

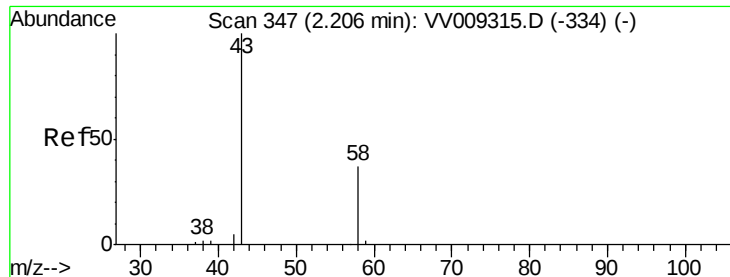


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 42.397 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

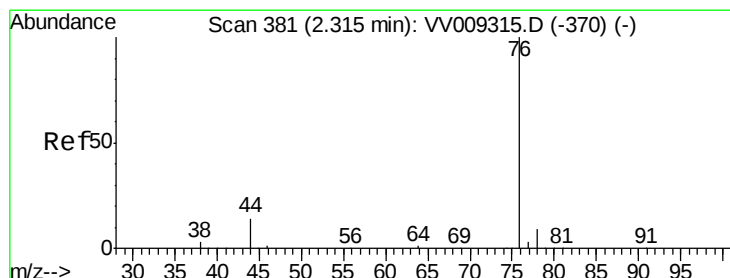
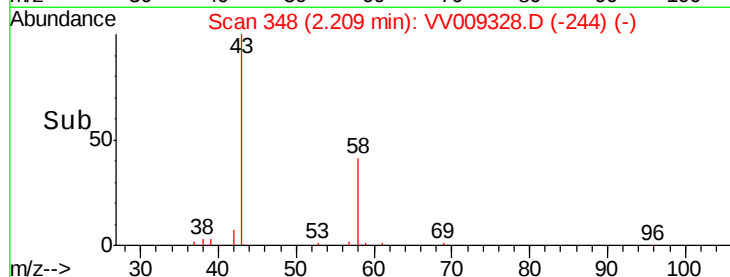
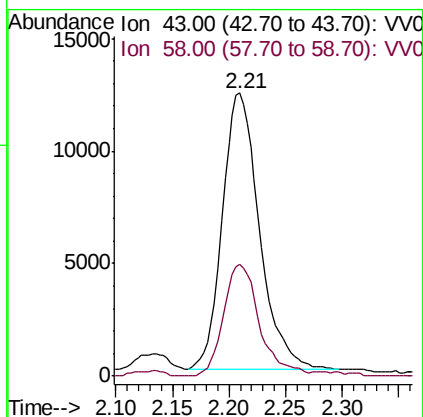
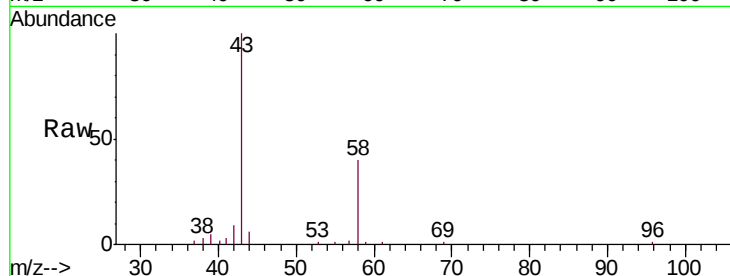
VSTD02577

Tgt Ion: 43 Resp: 28140

Ion Ratio Lower Upper

43 100

58 39.3 0.0 72.0



#14

Carbon disulfide

Concen: 23.982 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009328.D

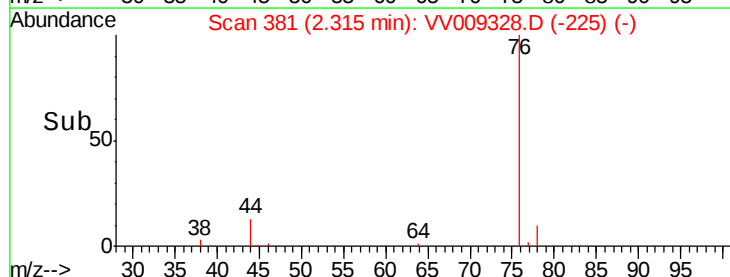
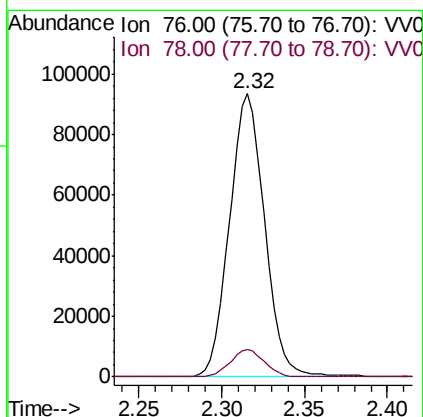
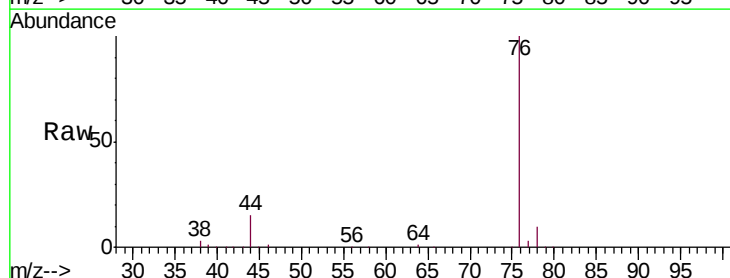
Acq: 22 Feb 2019 13:53

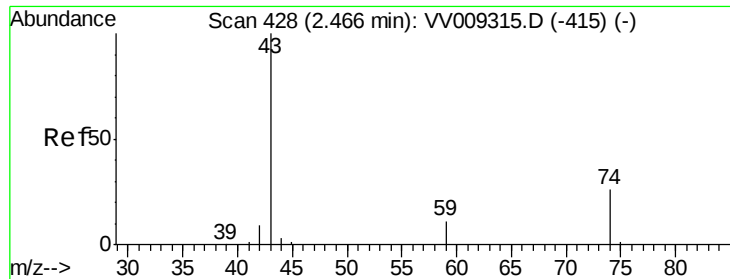
Tgt Ion: 76 Resp: 137303

Ion Ratio Lower Upper

76 100

78 9.7 6.9 10.3





#15

Methyl Acetate

Concen: 20.163 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

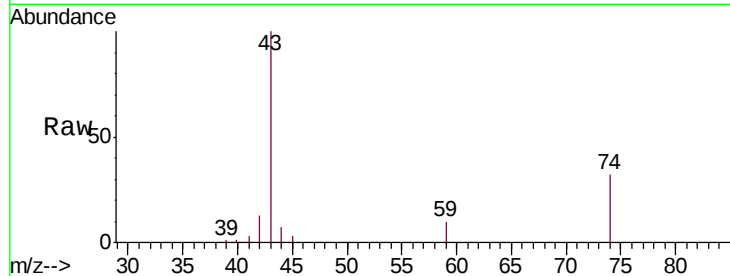
VSTD02577

Tgt Ion: 43 Resp: 19514

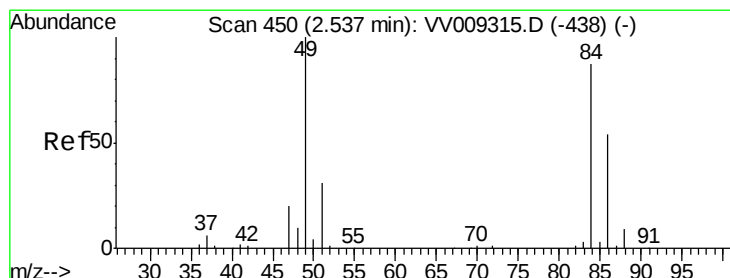
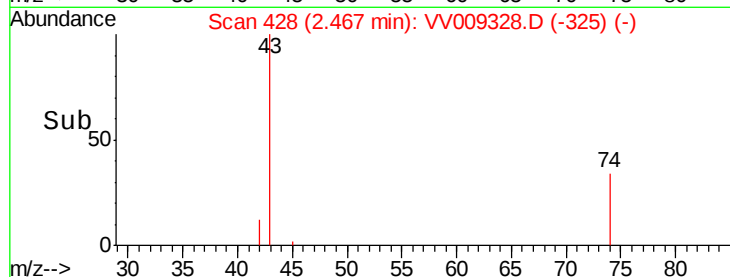
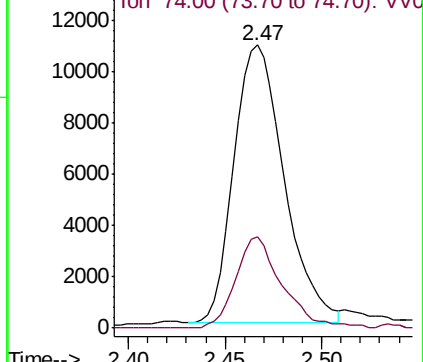
Ion Ratio Lower Upper

43 100

74 30.4 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VV009328.D (-325) (-)



#16

Methylene chloride

Concen: 20.509 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

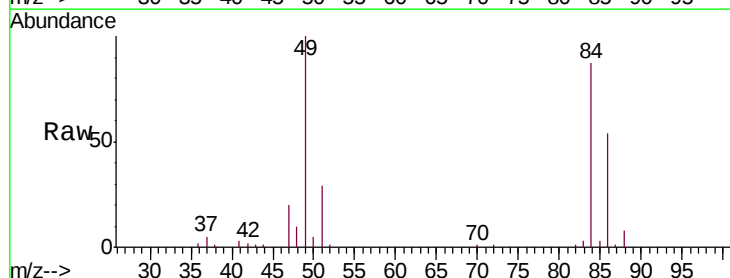
Tgt Ion: 84 Resp: 45241

Ion Ratio Lower Upper

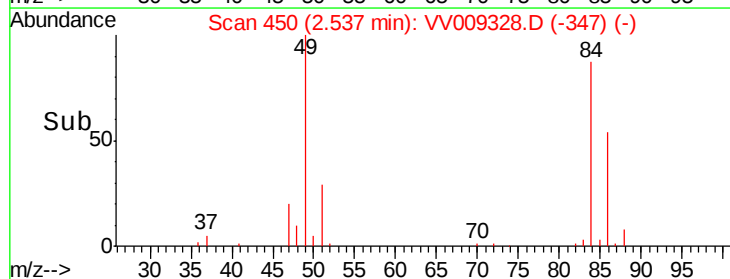
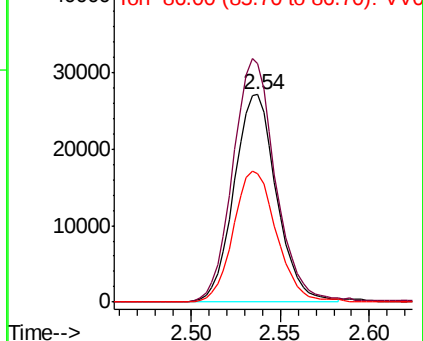
84 100

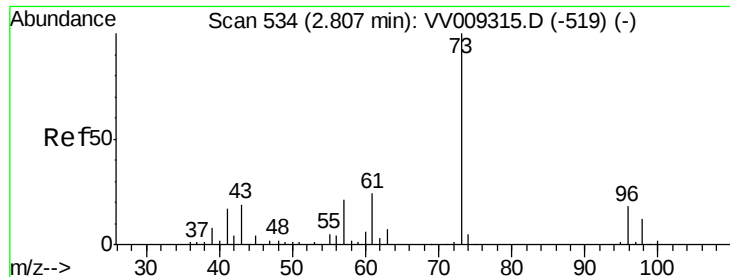
49 115.1 78.7 146.1

86 62.1 44.0 81.6



Abundance Ion 84.00 (83.70 to 84.70): VV009328.D (-347) (-)

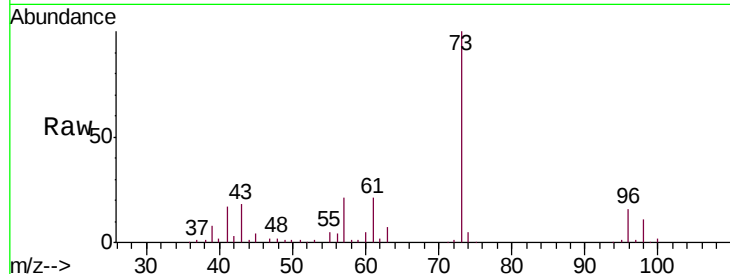




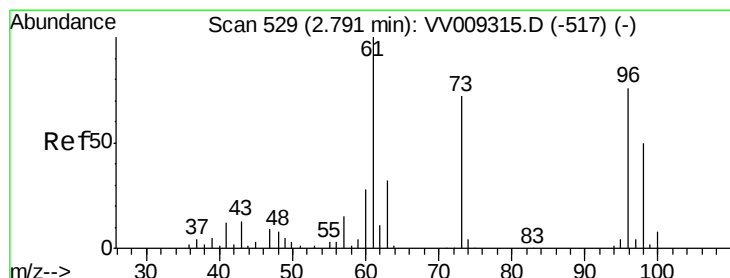
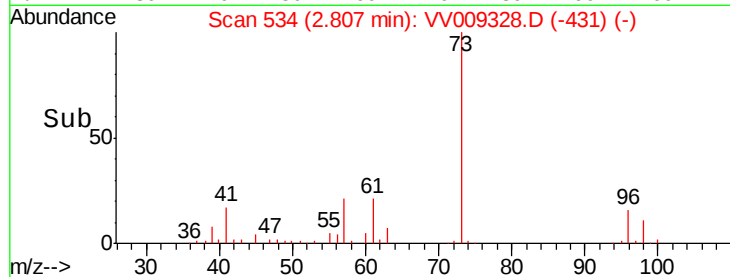
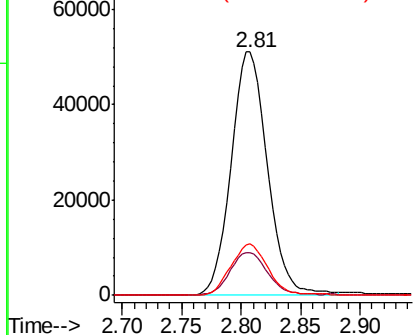
#17
Methyl tert-butyl Ether
Concen: 22.865 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Tgt Ion: 73 Resp: 108364
Ion Ratio Lower Upper
73 100
43 18.2 14.0 21.0
57 21.2 17.0 25.4

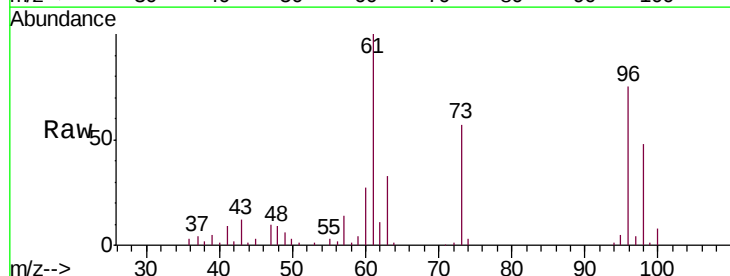


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

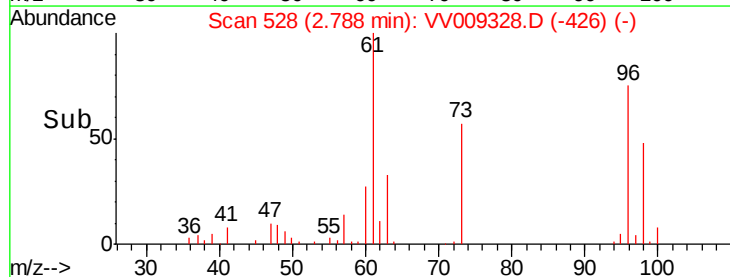
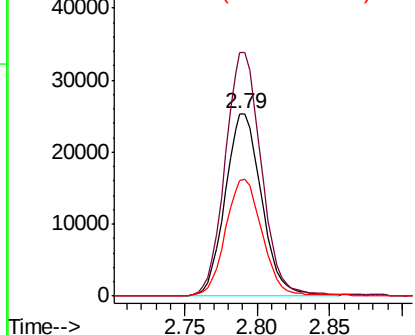


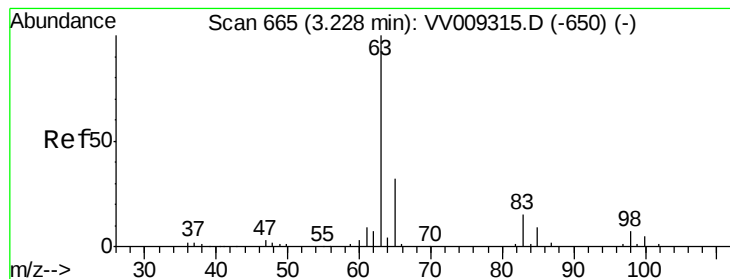
#18
trans-1,2-Dichloroethene
Concen: 22.912 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Tgt Ion: 96 Resp: 44161
Ion Ratio Lower Upper
96 100
61 133.3 88.8 165.0
98 63.5 43.0 79.8



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: 24.180 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

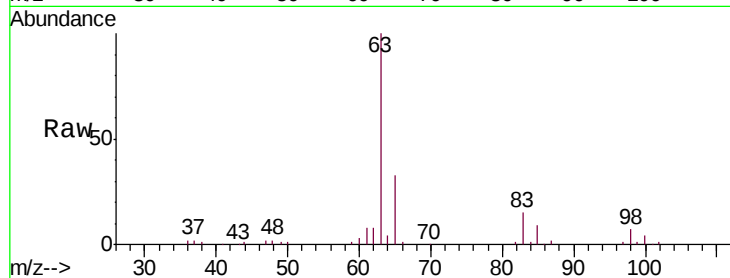
Tgt Ion: 63 Resp: 77413

Ion Ratio Lower Upper

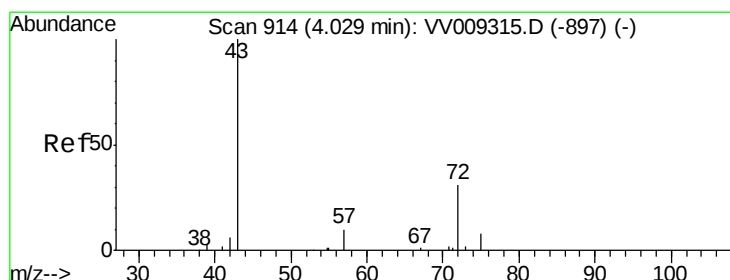
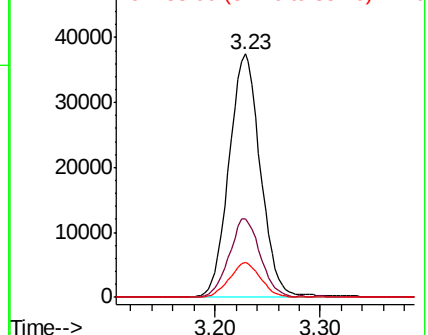
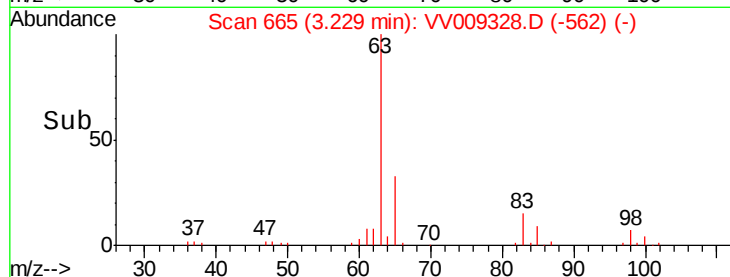
63 100

65 32.5 21.6 40.2

83 14.5 10.1 18.9



Abundance Ion 63.00 (62.70 to 63.70): VV009328.D (-562) (-)



#21

2-Butanone

Concen: 41.531 ug/L

RT: 4.03 min Scan# 914

Delta R.T. 0.00 min

Lab File: VV009328.D

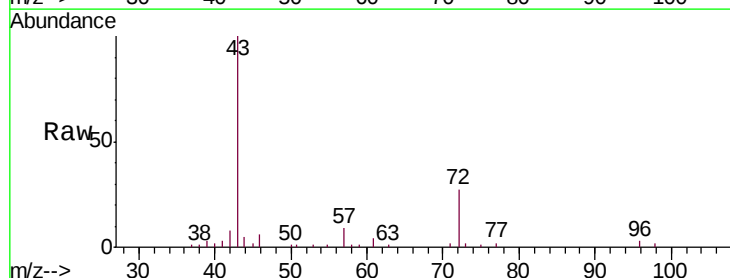
Acq: 22 Feb 2019 13:53

Tgt Ion: 43 Resp: 31579

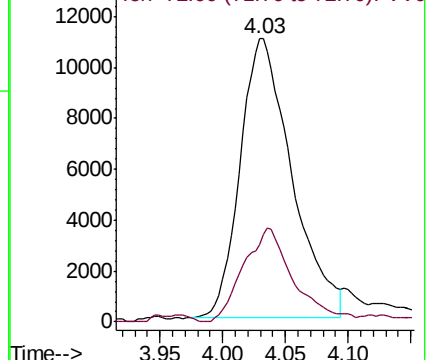
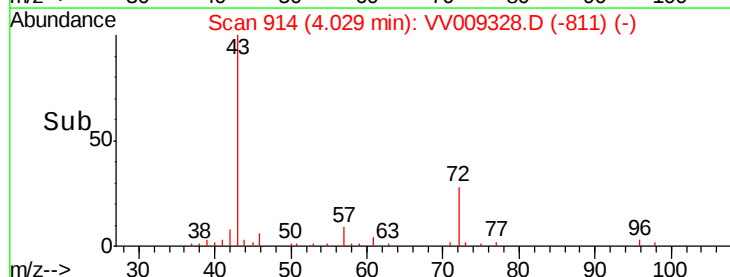
Ion Ratio Lower Upper

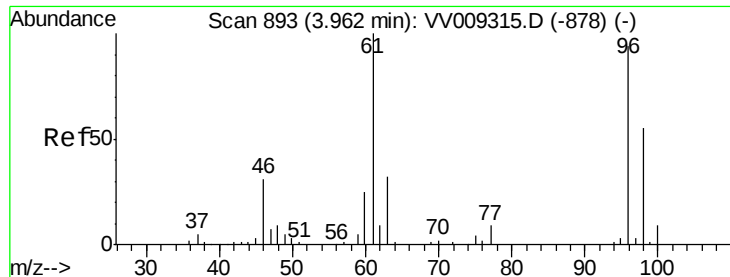
43 100

72 31.9 15.4 46.2



Abundance Ion 43.00 (42.70 to 43.70): VV009328.D (-811) (-)



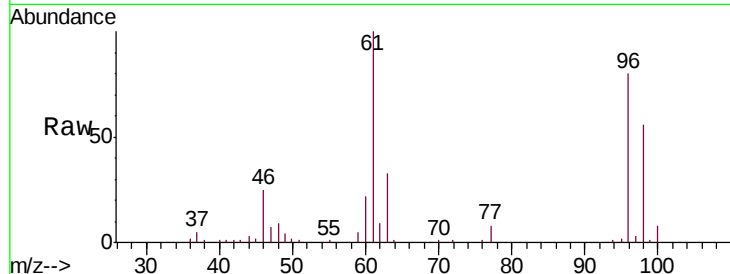


#22

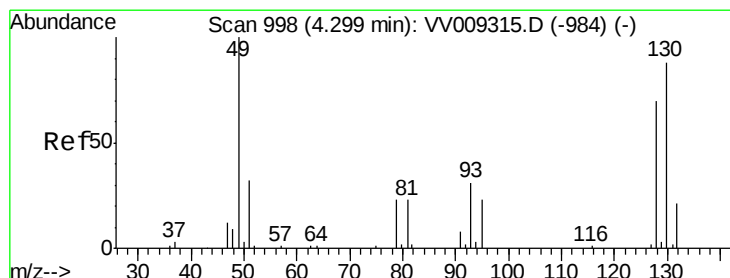
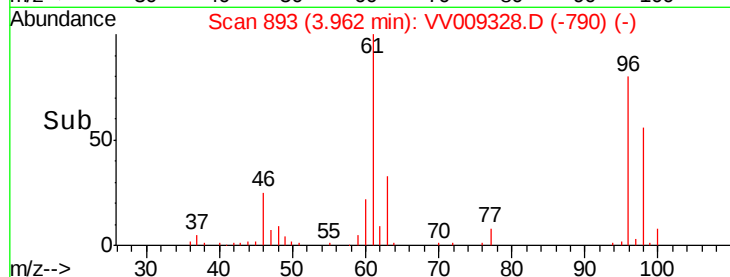
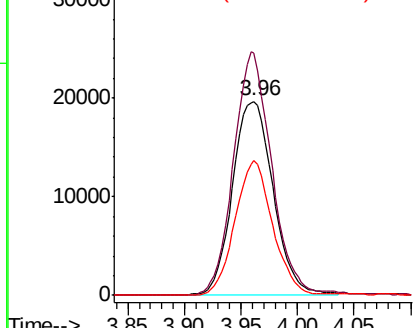
cis-1,2-Dichloroethene
Concen: 23.427 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Tgt Ion: 96 Resp: 49326
Ion Ratio Lower Upper
96 100
61 124.8 86.2 160.0
98 69.4 46.8 87.0



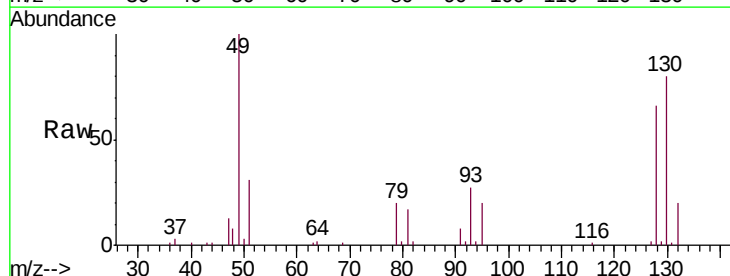
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



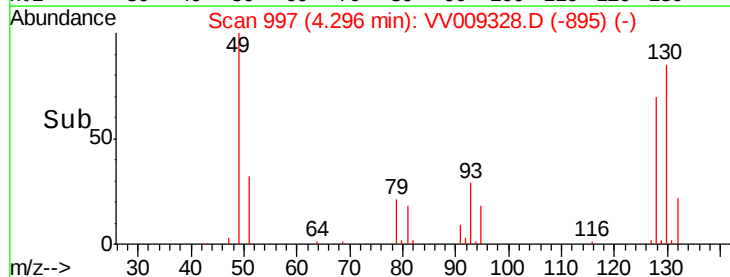
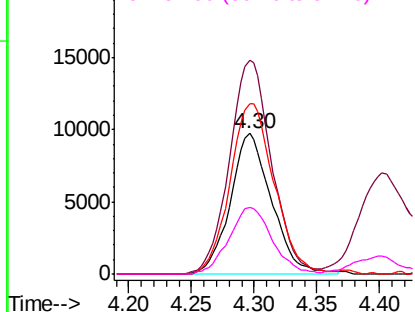
#23

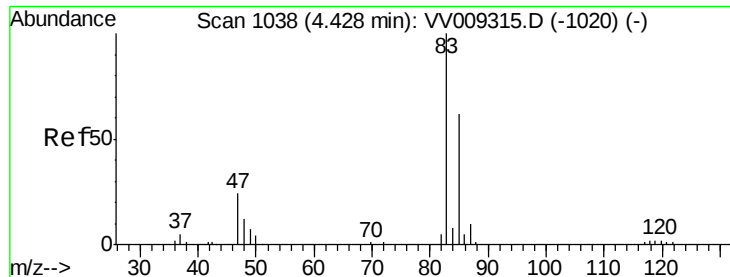
Bromochloromethane
Concen: 23.061 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Tgt Ion: 128 Resp: 22222
Ion Ratio Lower Upper
128 100
49 152.0 103.0 191.4
130 121.2 93.3 173.3
51 47.5 36.5 54.7



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

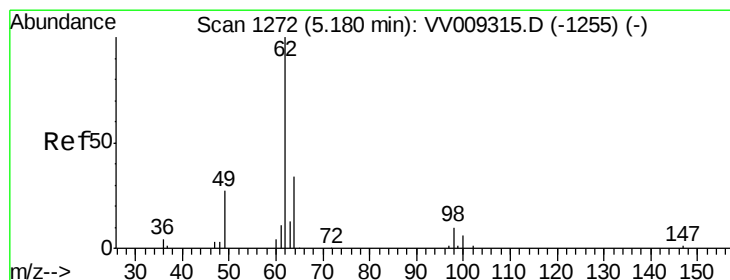
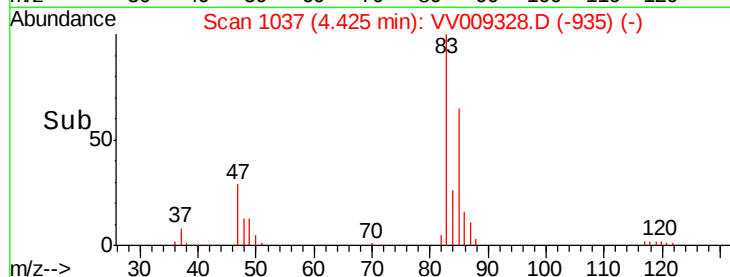
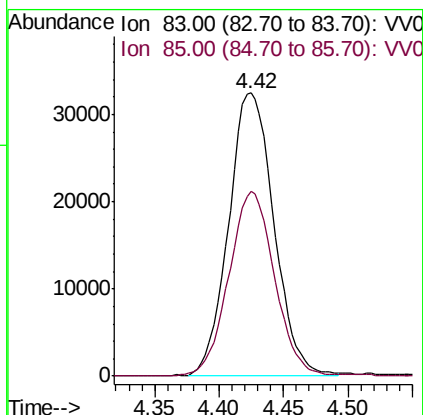
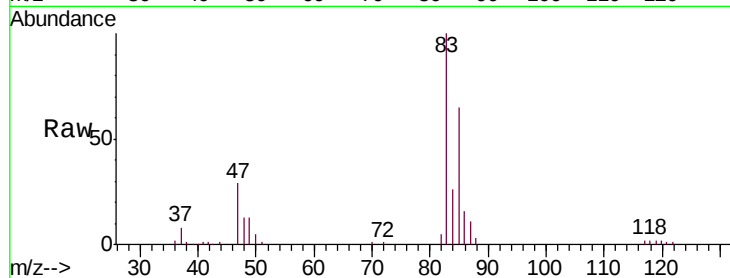




#25
Chloroform
Concen: 23.315 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

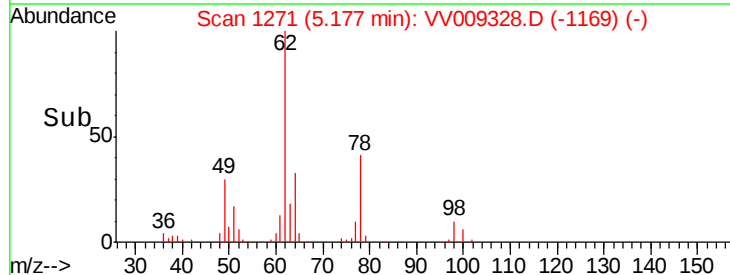
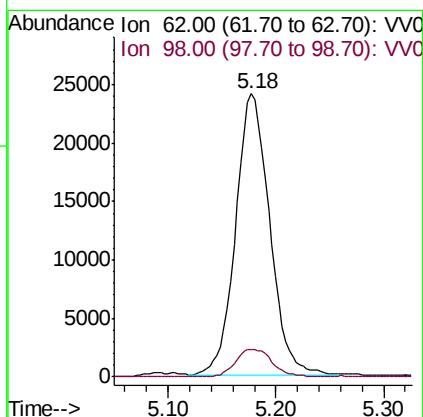
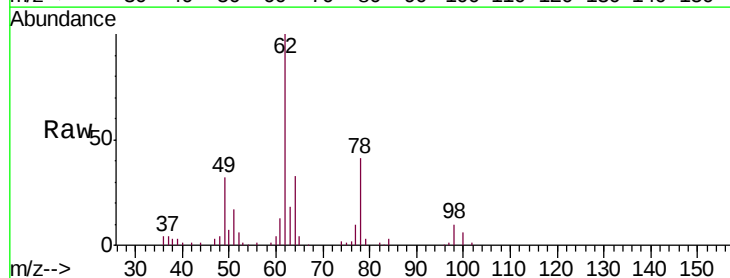
Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

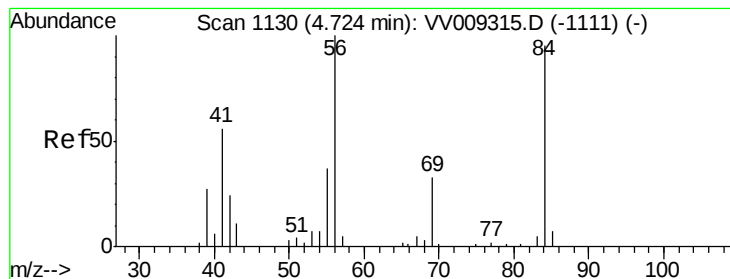
Tgt Ion: 83 Resp: 79425
Ion Ratio Lower Upper
83 100
85 65.6 47.5 88.3



#27
1,2-Dichloroethane
Concen: 22.915 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Tgt Ion: 62 Resp: 52861
Ion Ratio Lower Upper
62 100
98 9.7 8.5 12.7





#30

Cyclohexane

Concen: 24.160 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

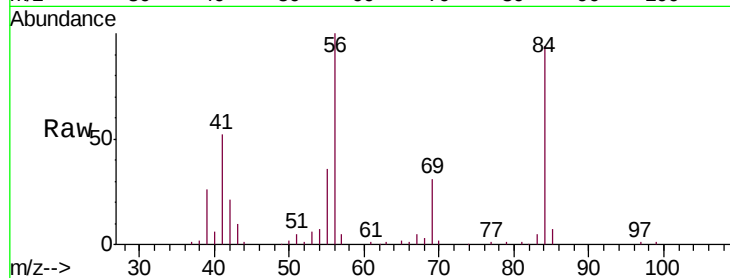
Tgt Ion: 56 Resp: 77210

Ion Ratio Lower Upper

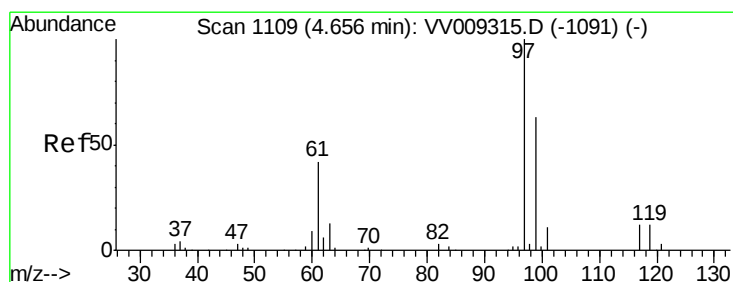
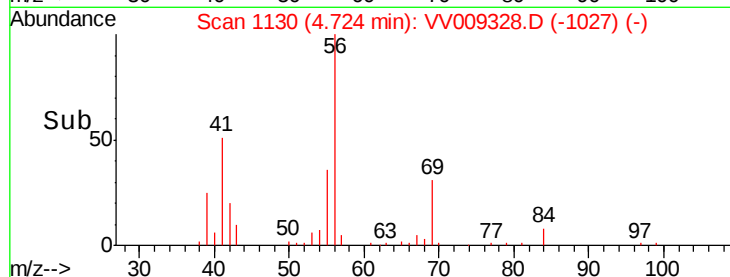
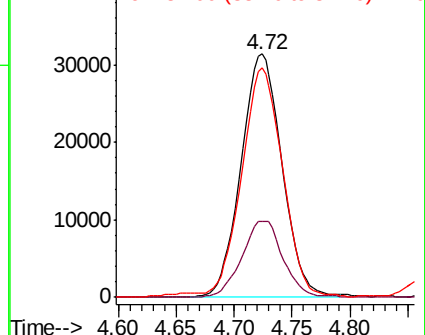
56 100

69 31.3 25.7 38.5

84 94.1 77.2 115.8



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 22.536 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

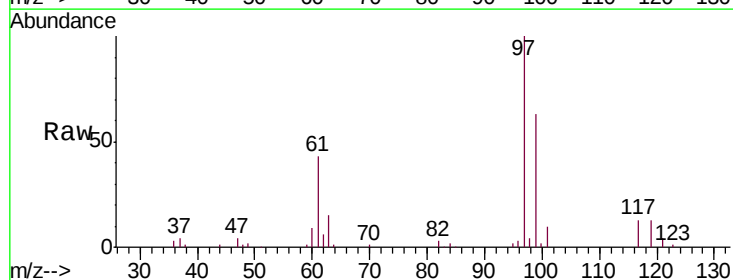
Tgt Ion: 97 Resp: 70165

Ion Ratio Lower Upper

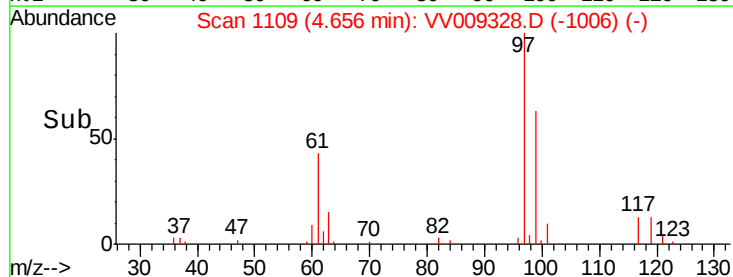
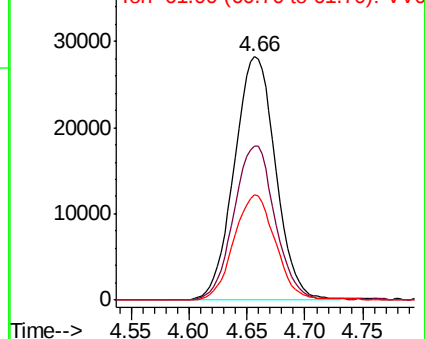
97 100

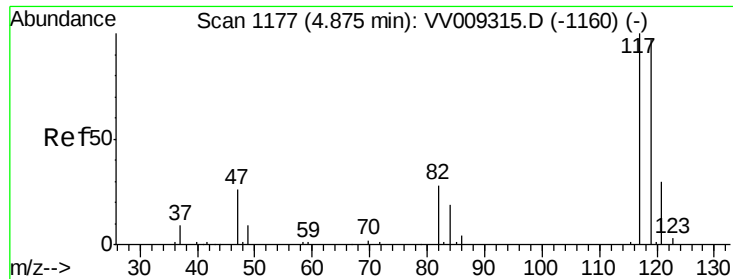
99 63.0 51.7 77.5

61 43.1 34.0 51.0



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 22.174 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

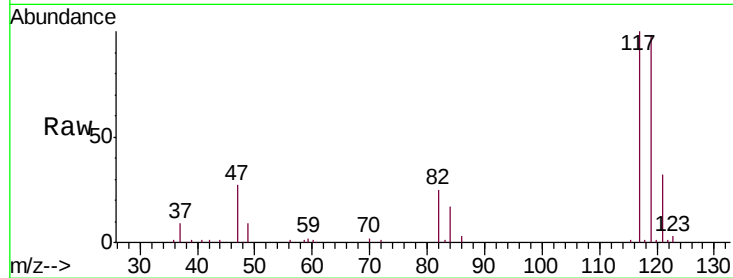
VSTD02577

Tgt Ion:117 Resp: 58340

Ion Ratio Lower Upper

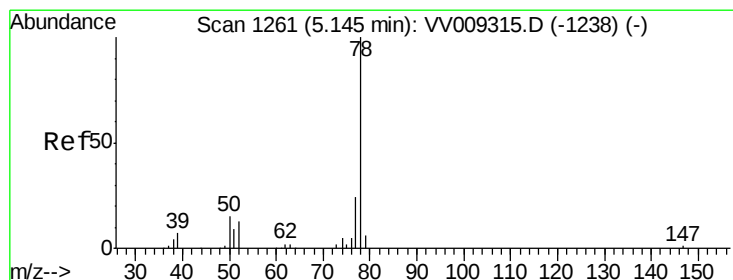
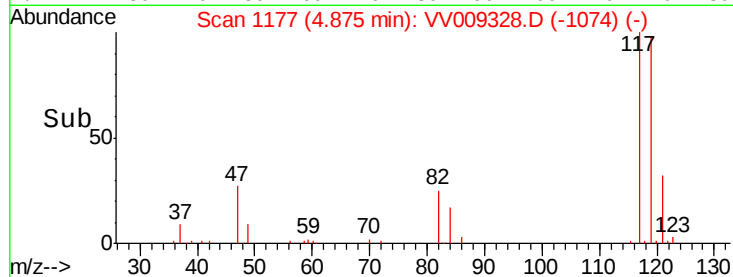
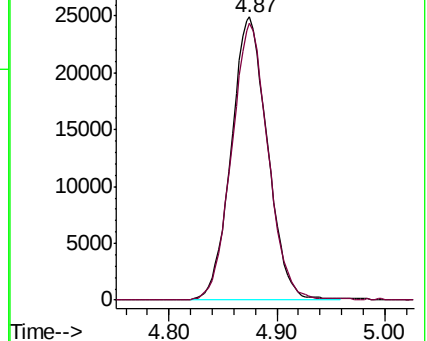
117 100

119 97.6 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.294 ug/L

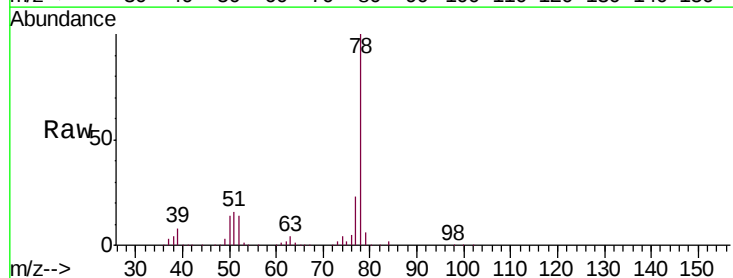
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

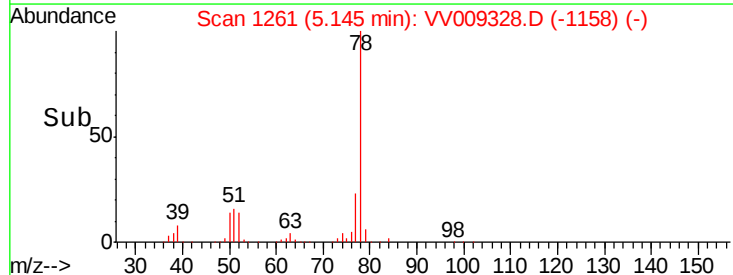
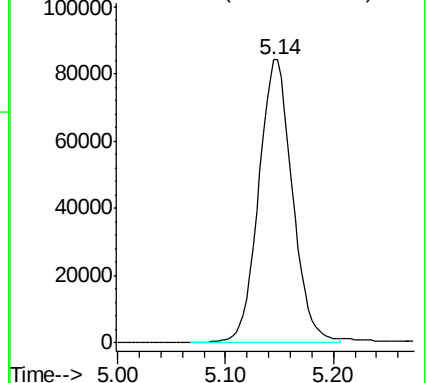
Lab File: VV009328.D

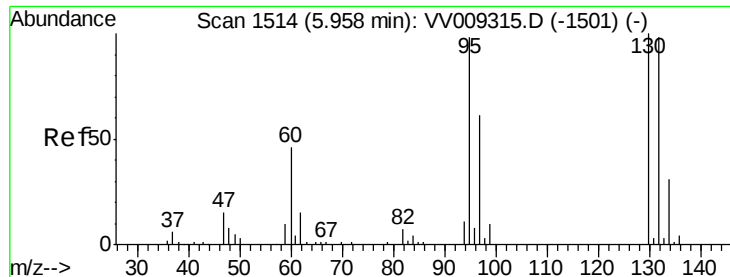
Acq: 22 Feb 2019 13:53

Tgt Ion: 78 Resp: 183129



Abundance Ion 78.00 (77.70 to 78.70): VV0

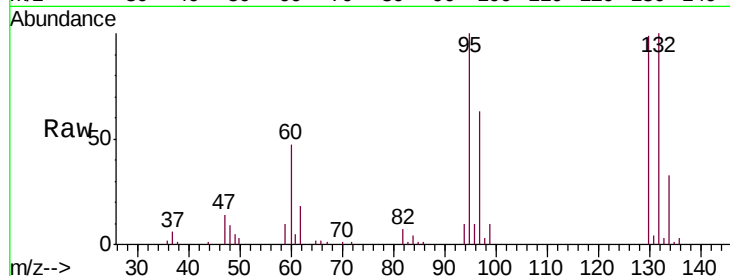




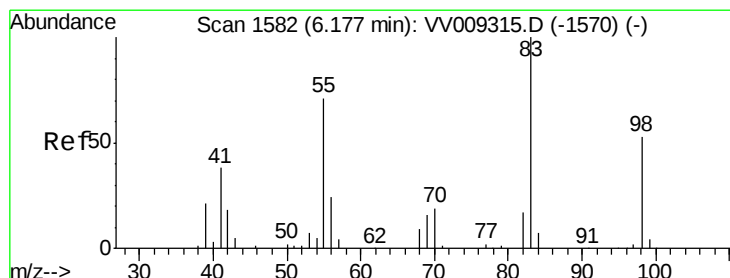
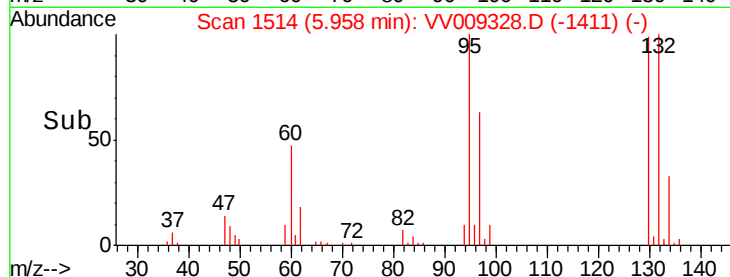
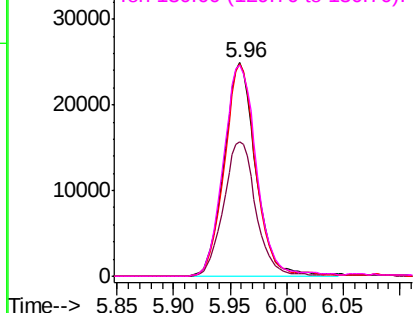
#35
 Trichloroethene
 Concen: 23.259 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV009328.D
 Acq: 22 Feb 2019 13:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

Tgt Ion: 95 Resp: 48768
 Ion Ratio Lower Upper
 95 100
 97 63.4 45.0 83.6
 132 96.4 68.7 127.5
 130 102.1 72.2 134.0

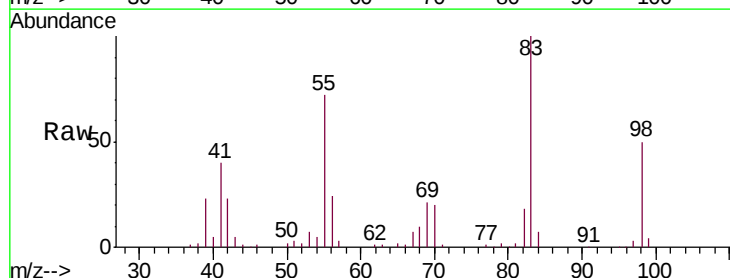


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

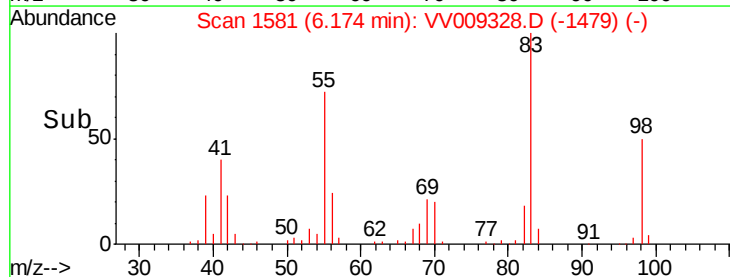
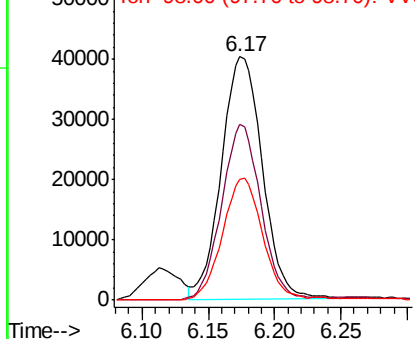


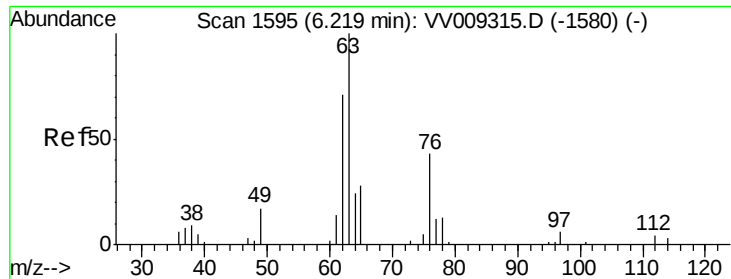
#36
 Methylcyclohexane
 Concen: 23.486 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV009328.D
 Acq: 22 Feb 2019 13:53

Tgt Ion: 83 Resp: 86137
 Ion Ratio Lower Upper
 83 100
 55 69.8 55.8 83.6
 98 48.8 40.3 60.5



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

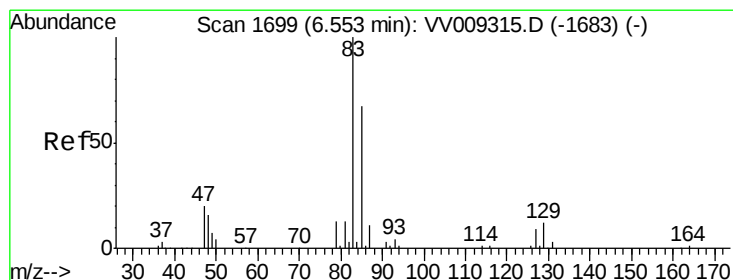
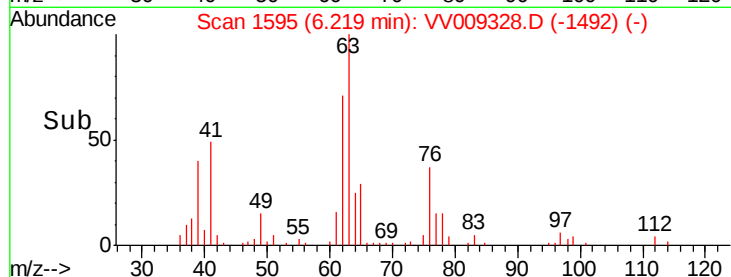
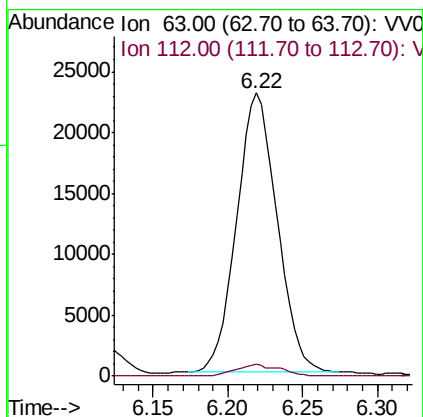
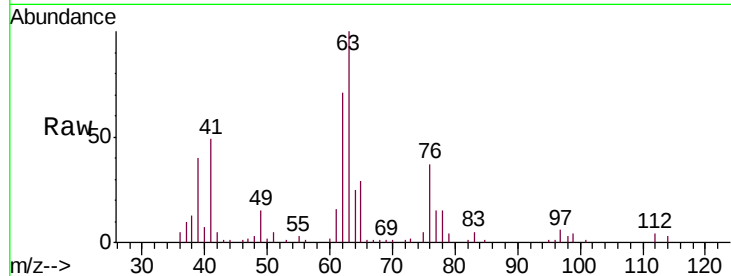




#40
 1,2-Dichloropropane
 Concen: 23.605 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV009328.D
 Acq: 22 Feb 2019 13:53

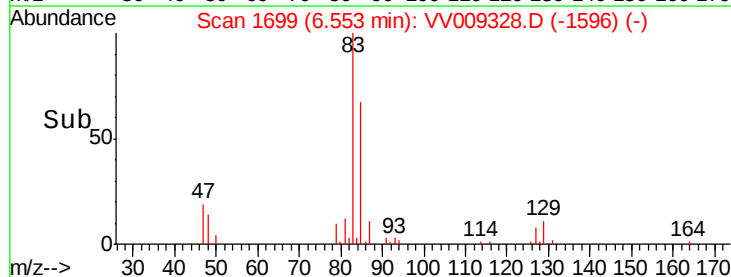
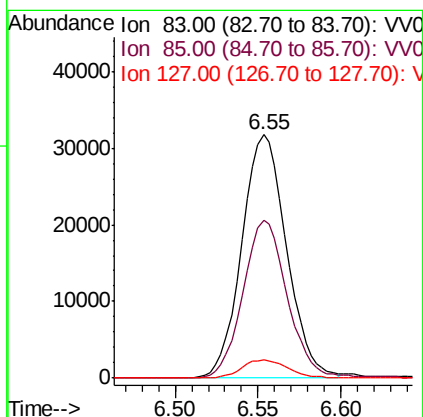
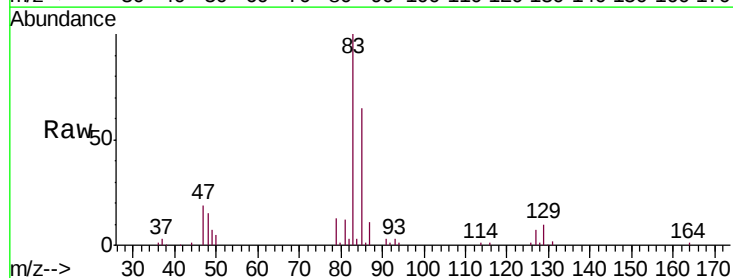
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

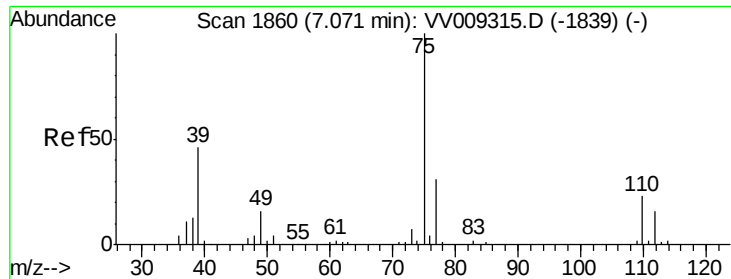
Tgt Ion: 63 Resp: 43188
 Ion Ratio Lower Upper
 63 100
 112 3.3 3.8 5.8#



#41
 Bromodichloromethane
 Concen: 22.934 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV009328.D
 Acq: 22 Feb 2019 13:53

Tgt Ion: 83 Resp: 59759
 Ion Ratio Lower Upper
 83 100
 85 65.1 44.9 83.5
 127 7.3 6.3 9.5



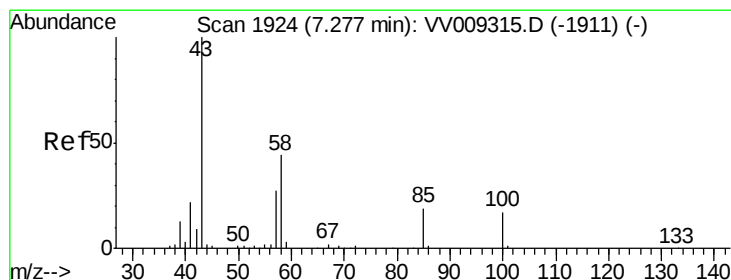
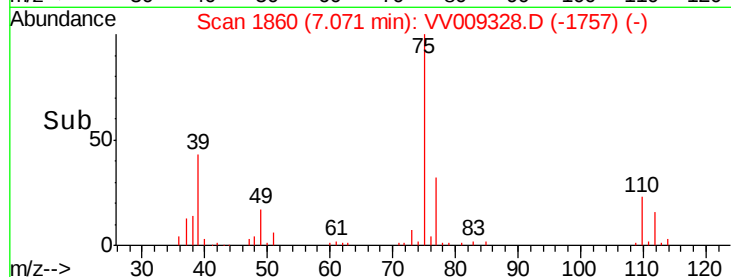
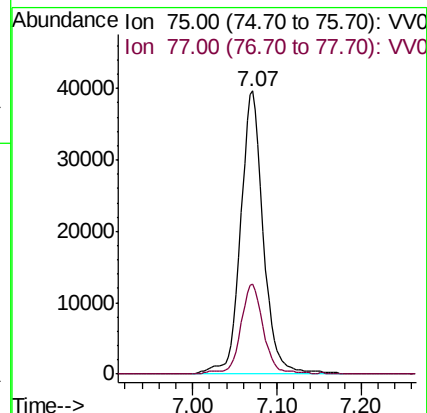
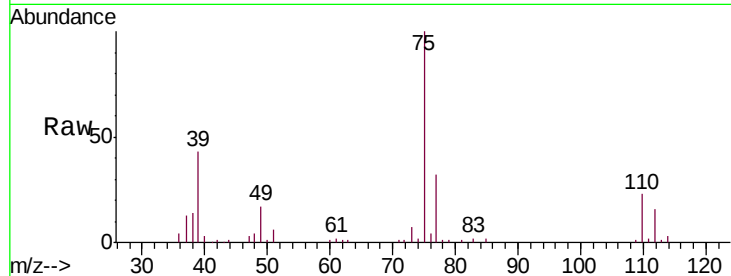


#42

cis-1,3-Dichloropropene
Concen: 24.109 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

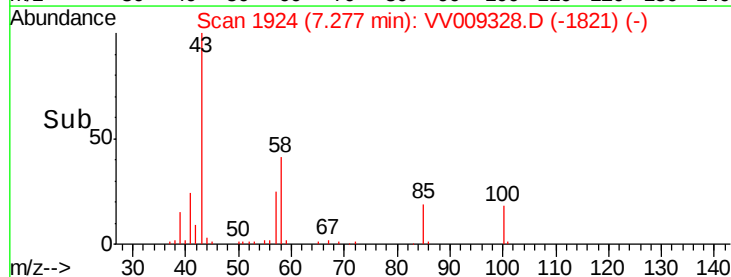
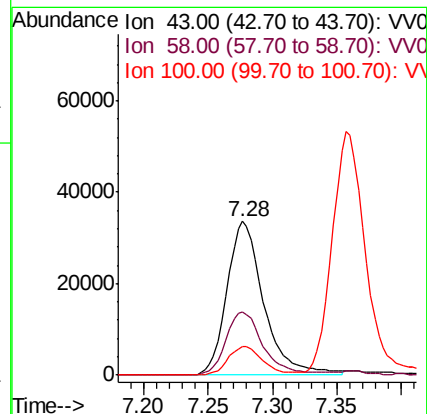
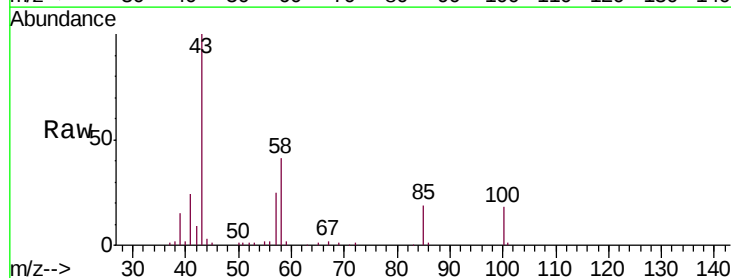
Tgt Ion: 75 Resp: 74859
Ion Ratio Lower Upper
75 100
77 31.7 22.0 40.8

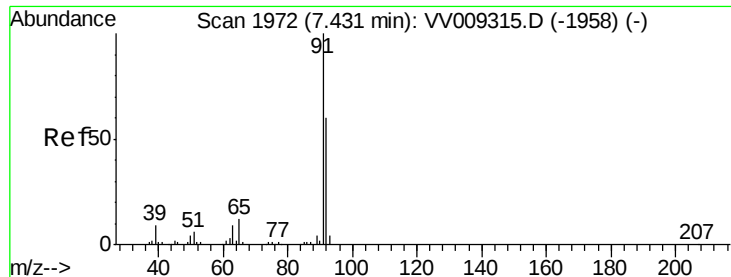


#43

4-Methyl-2-pentanone
Concen: 43.570 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Tgt Ion: 43 Resp: 66917
Ion Ratio Lower Upper
43 100
58 41.7 34.2 51.4
100 17.6 15.1 22.7





#44

Toluene

Concen: 24.147 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

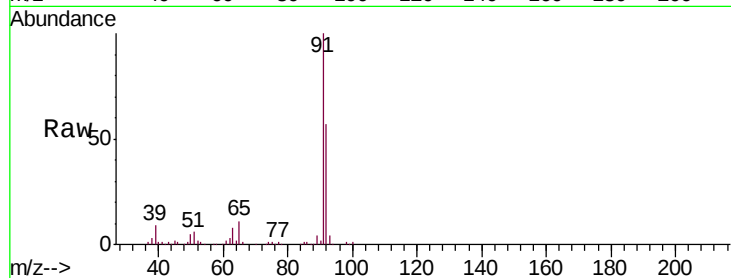
VSTD02577

Tgt Ion: 91 Resp: 201884

Ion Ratio Lower Upper

91 100

92 56.8 40.5 75.3



Abundance Ion 91.00 (90.70 to 91.70): VV009315.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009315.D (-1958) (-)

7.43

120000

100000

80000

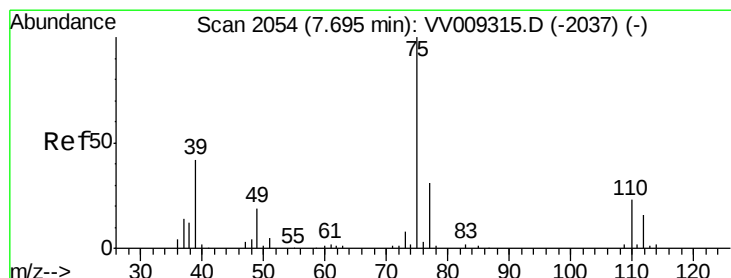
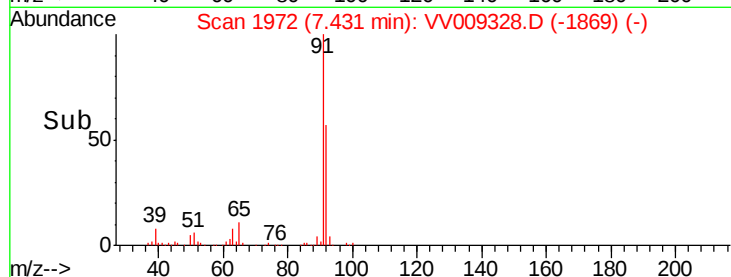
60000

40000

20000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 22.816 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009328.D

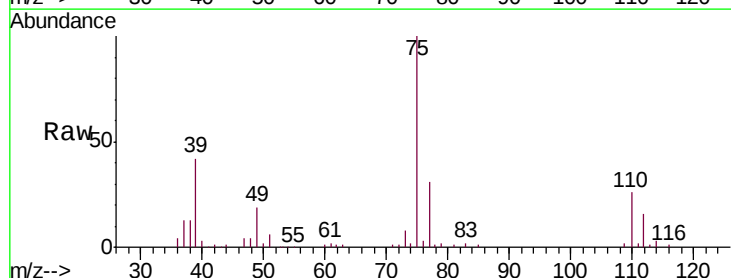
Acq: 22 Feb 2019 13:53

Tgt Ion: 75 Resp: 62034

Ion Ratio Lower Upper

75 100

77 30.9 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VV009315.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009315.D (-2037) (-)

7.69

40000

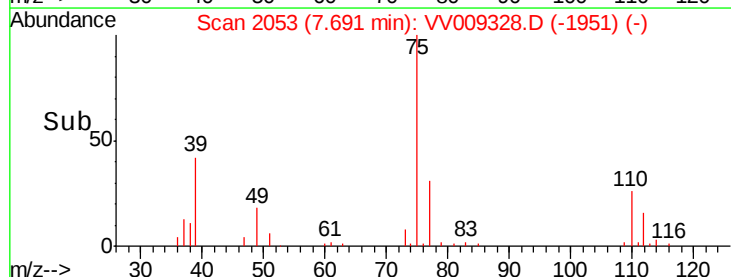
30000

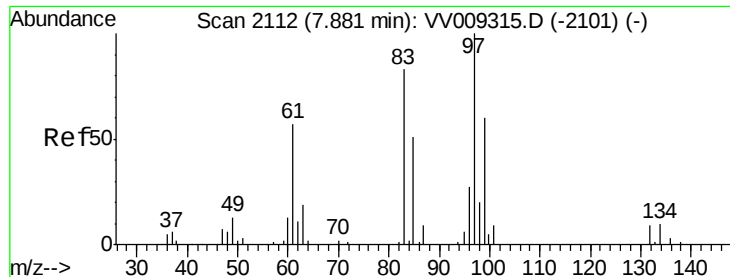
20000

10000

0

Time-->

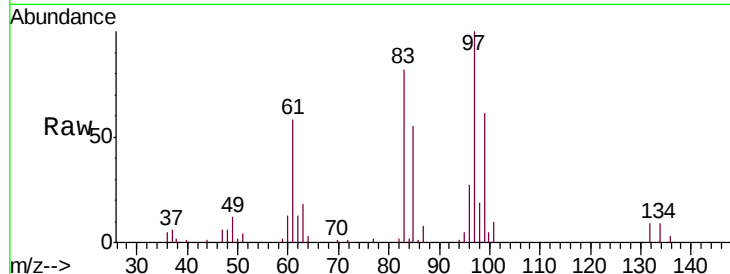




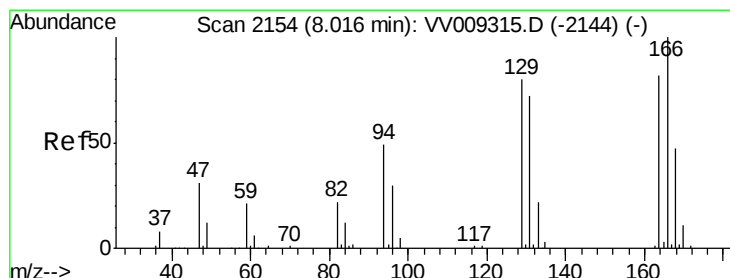
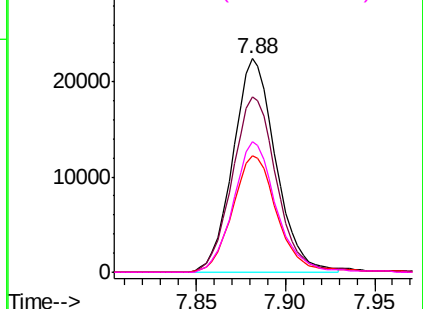
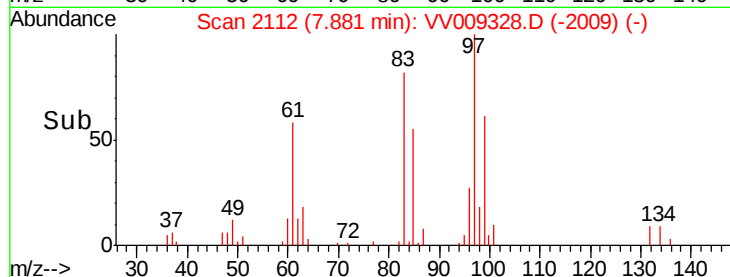
#46
 1,1,2-Trichloroethane
 Concen: 22.996 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV009328.D
 Acq: 22 Feb 2019 13:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

Tgt Ion:	97	Resp:	37466
Ion	Ratio	Lower	Upper
97	100		
83	82.1	58.1	107.9
85	54.6	38.4	71.2
99	60.9	44.7	83.1

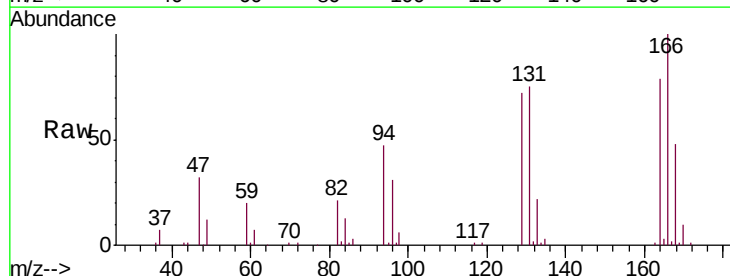


Abundance Ion 97.00 (96.70 to 97.70): VV009328.D (-2099) (-)

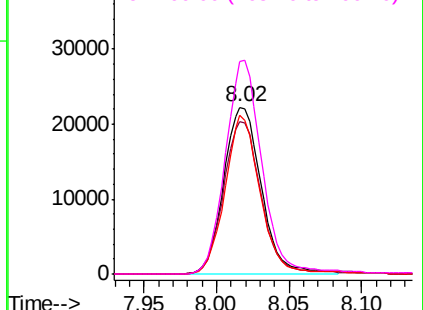
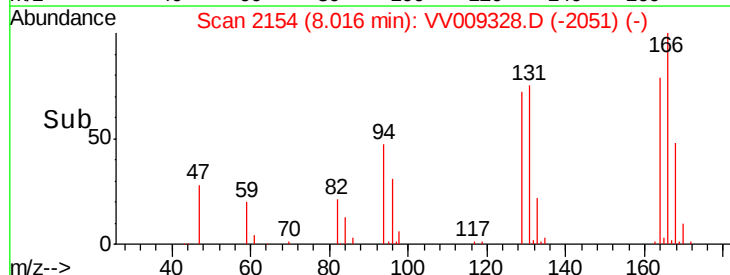


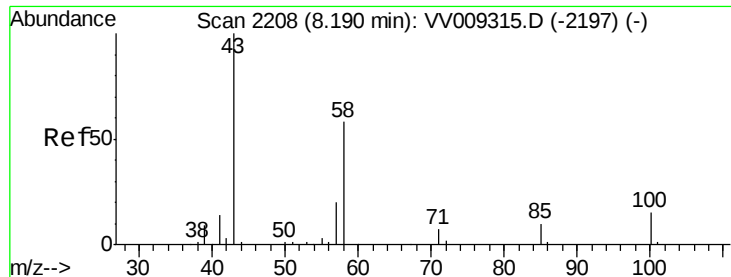
#47
 Tetrachloroethene
 Concen: 24.437 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV009328.D
 Acq: 22 Feb 2019 13:53

Tgt Ion:	164	Resp:	40046
Ion	Ratio	Lower	Upper
164	100		
129	91.5	67.0	124.4
131	95.1	65.0	120.8
166	127.2	89.9	167.0



Abundance Ion 164.00 (163.70 to 164.70): VV009328.D (-2051) (-)

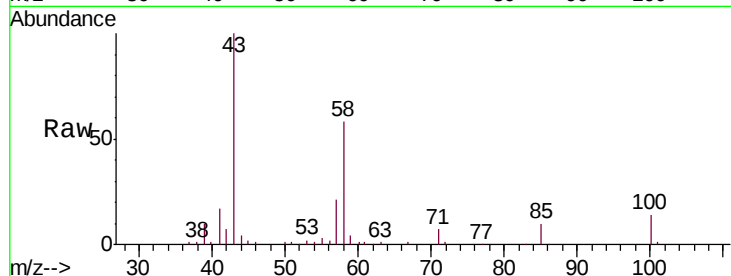




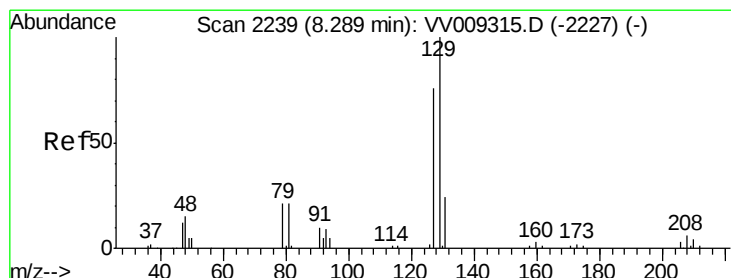
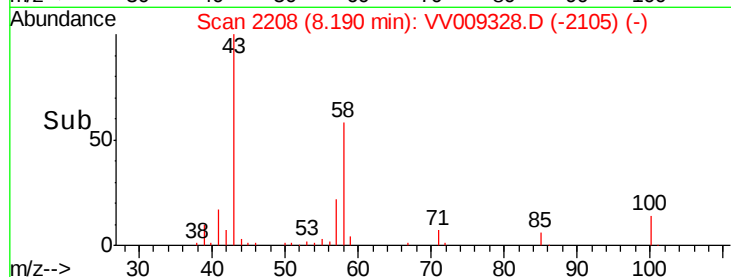
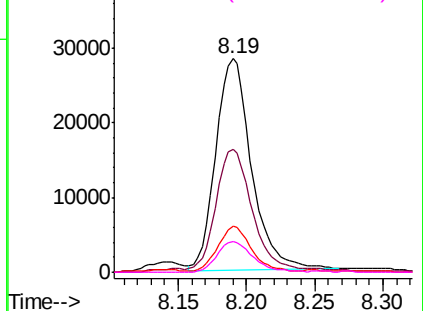
#49
2-Hexanone
Concen: 43.689 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Tgt Ion: 43 Resp: 51604
Ion Ratio Lower Upper
43 100
58 58.1 46.8 70.2
57 19.9 14.2 21.2
100 14.7 11.0 16.6

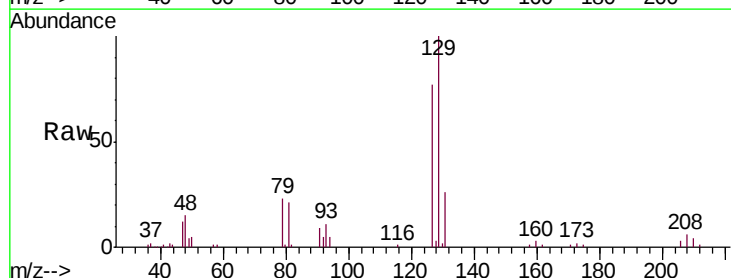


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

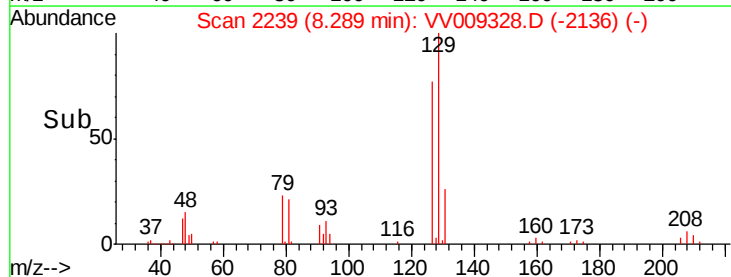
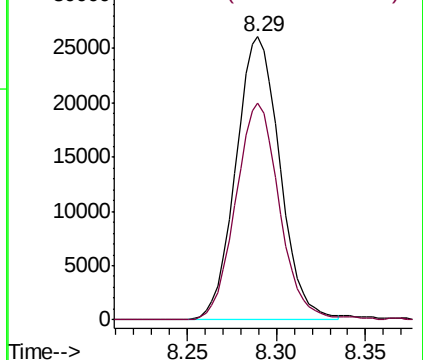


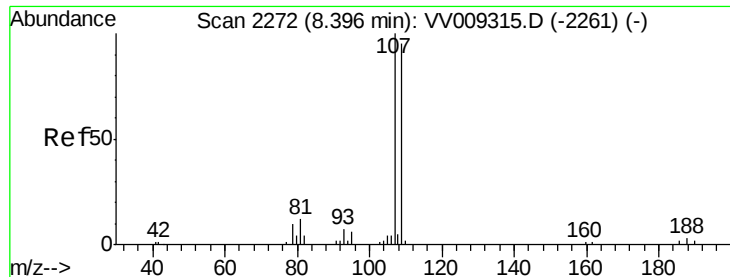
#50
Dibromochloromethane
Concen: 22.820 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Tgt Ion: 129 Resp: 44829
Ion Ratio Lower Upper
129 100
127 76.7 53.6 99.6



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





#51

1,2-Dibromoethane

Concen: 23.304 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

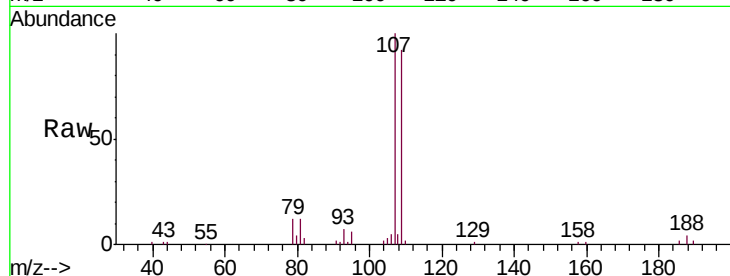
Tgt Ion:107 Resp: 38081

Ion Ratio Lower Upper

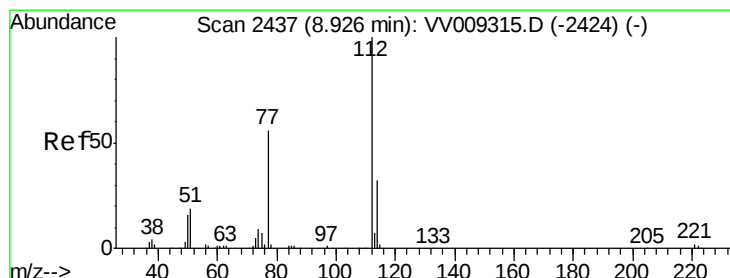
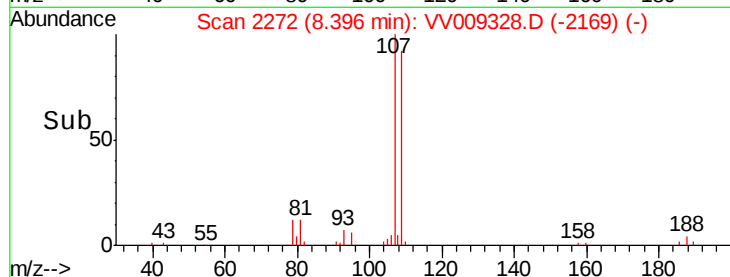
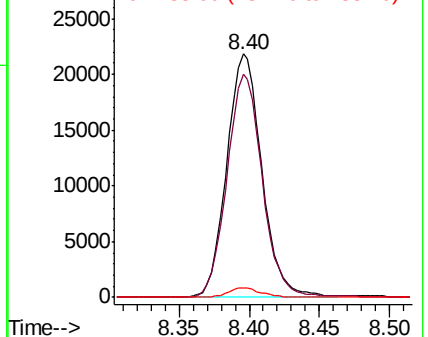
107 100

109 91.6 64.5 119.9

188 3.7 2.8 4.2



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: 24.209 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

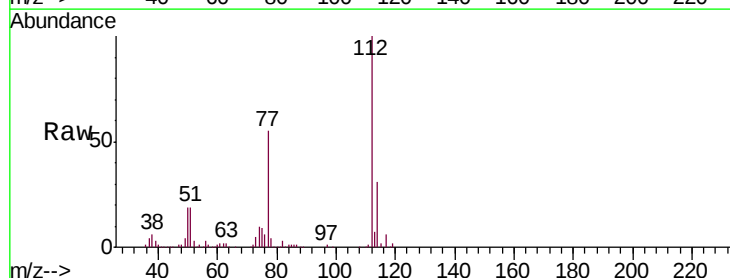
Tgt Ion:112 Resp: 131794

Ion Ratio Lower Upper

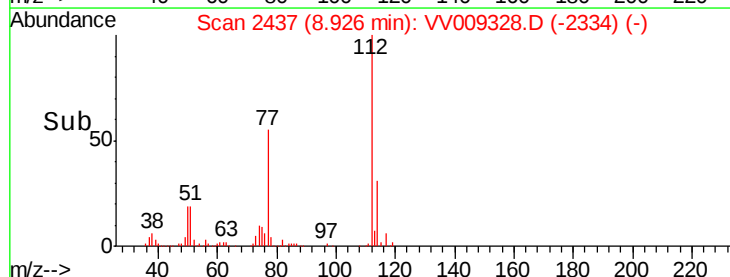
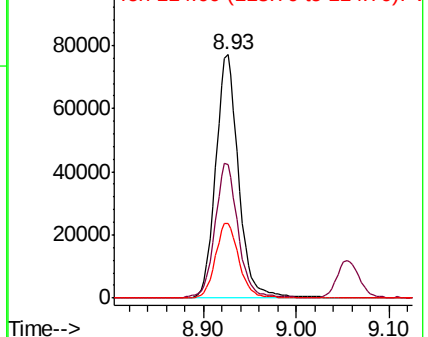
112 100

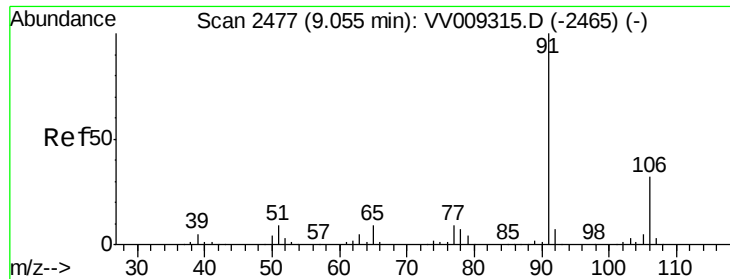
77 54.7 45.0 67.4

114 30.7 22.0 41.0



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.382 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

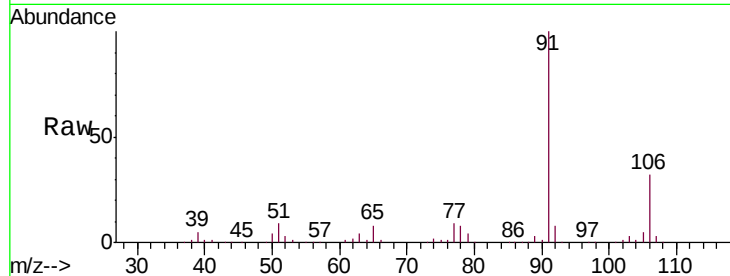
VSTD02577

Tgt Ion: 91 Resp: 230291

Ion Ratio Lower Upper

91 100

106 31.9 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VV009328.D (-2374) (-)

Ion 106.00 (105.70 to 106.70): VV009328.D (-2374) (-)

9.05

150000

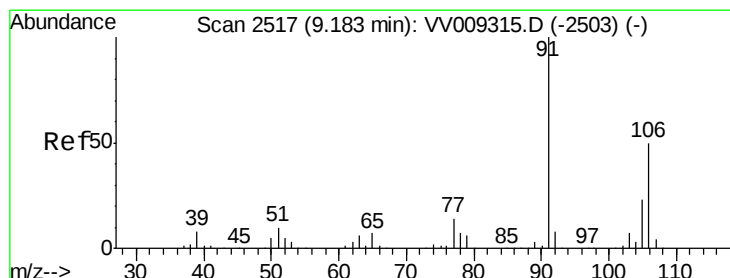
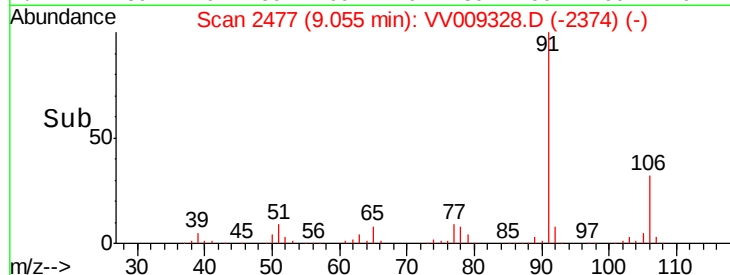
100000

50000

0

9.00 9.05 9.10 9.15

Time-->



#54

m,p-Xylene

Concen: 23.952 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009328.D

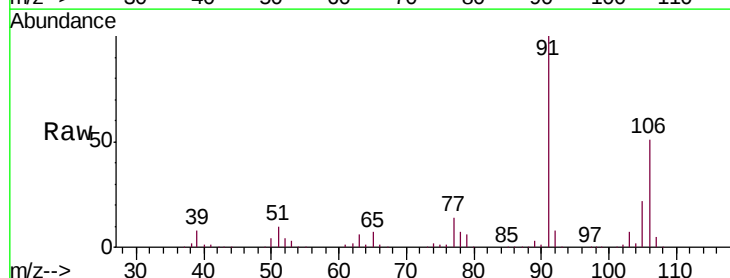
Acq: 22 Feb 2019 13:53

Tgt Ion: 106 Resp: 88274

Ion Ratio Lower Upper

106 100

91 196.1 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): VV009328.D (-2414) (-)

Ion 91.00 (90.70 to 91.70): VV009328.D (-2414) (-)

9.18

120000

100000

80000

60000

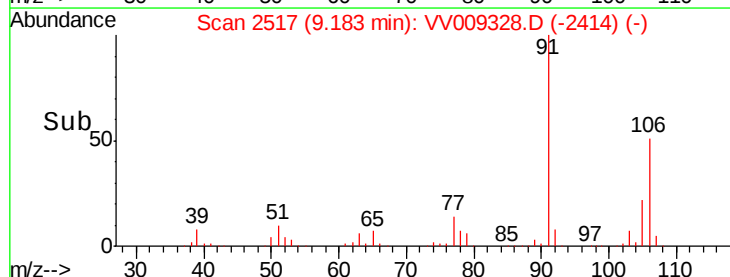
40000

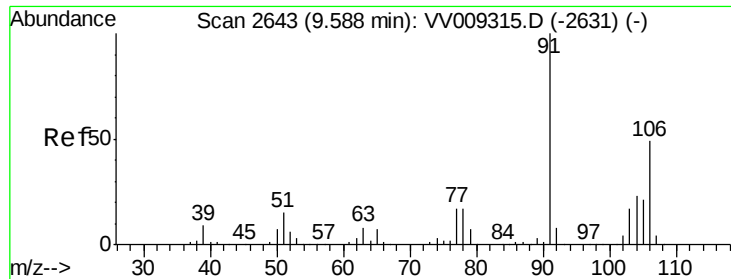
20000

0

9.10 9.15 9.20 9.25

Time-->

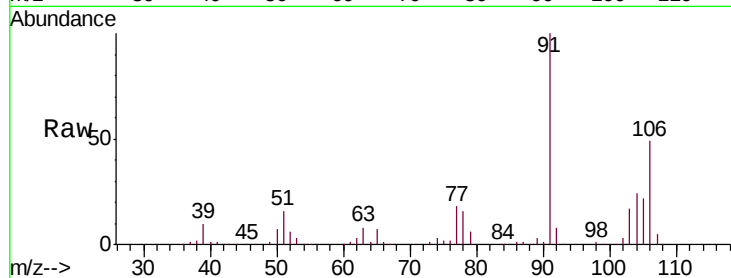




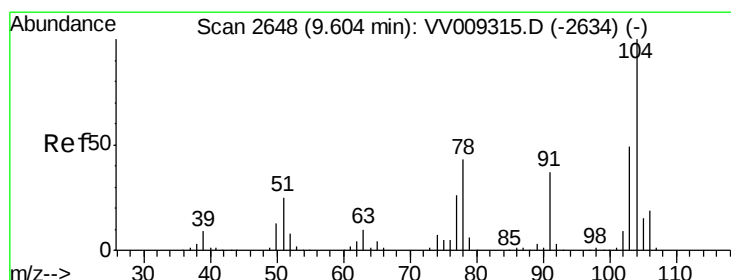
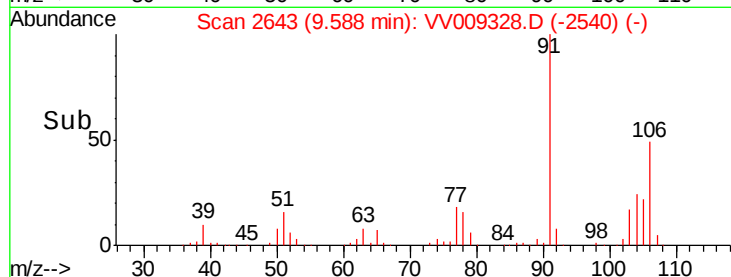
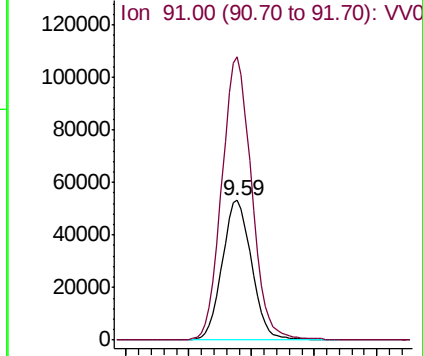
#55
o-xylene
Concen: 25.119 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Tgt Ion:106 Resp: 86895
Ion Ratio Lower Upper
106 100
91 202.2 146.4 271.8

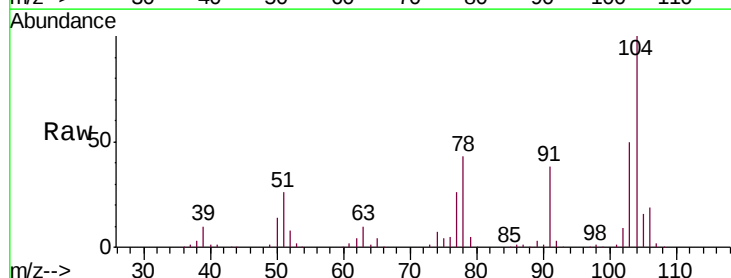


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

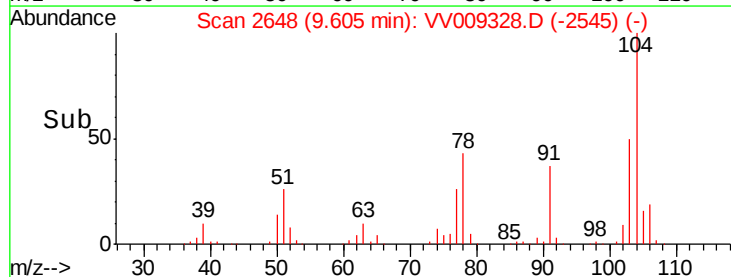
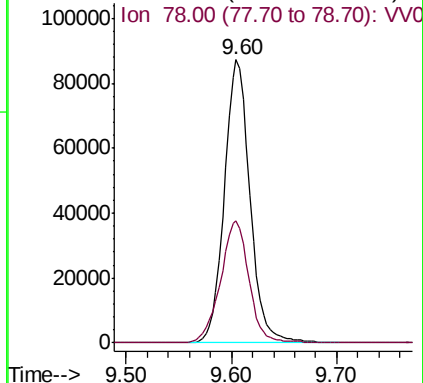


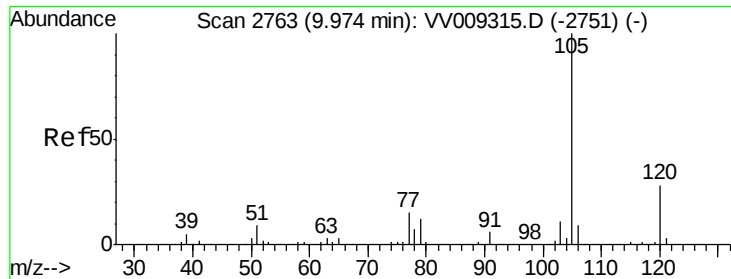
#56
Styrene
Concen: 24.743 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009328.D
Acq: 22 Feb 2019 13:53

Tgt Ion:104 Resp: 146883
Ion Ratio Lower Upper
104 100
78 43.3 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 24.174 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

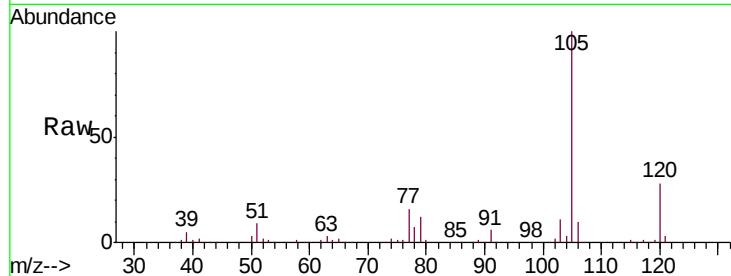
Tgt Ion: 105 Resp: 231501

Ion Ratio Lower Upper

105 100

120 27.3 21.7 32.5

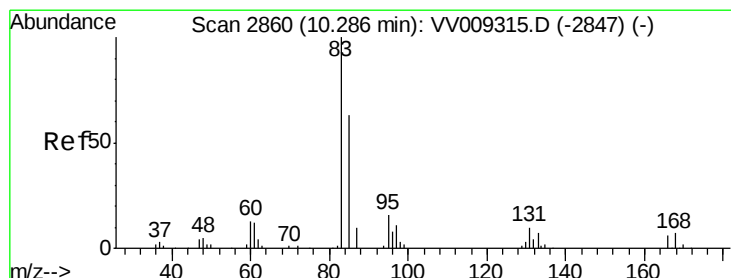
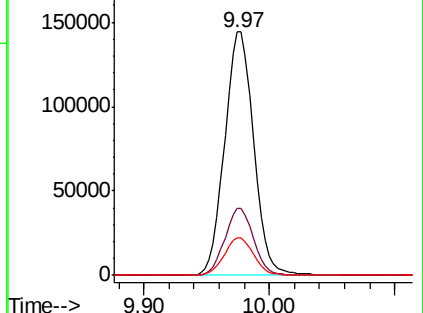
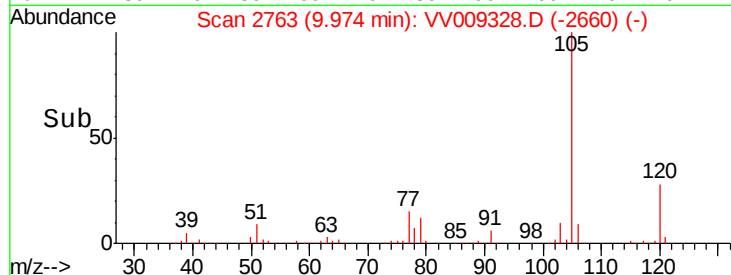
77 15.6 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): VV009328.D (-2660) (-)

Ion 120.00 (119.70 to 120.70): VV009328.D (-2660) (-)

Ion 77.00 (76.70 to 77.70): VV009328.D (-2660) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 22.286 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

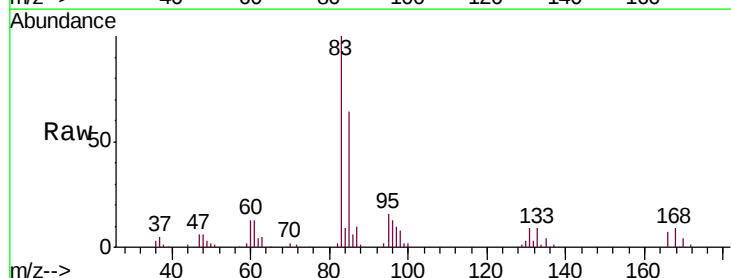
Tgt Ion: 83 Resp: 51238

Ion Ratio Lower Upper

83 100

85 64.1 44.7 83.1

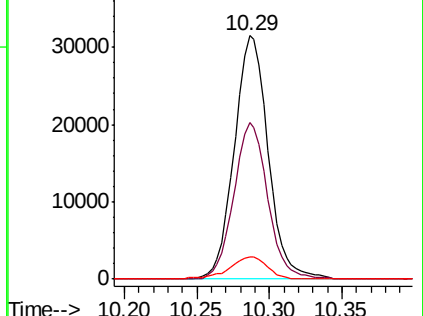
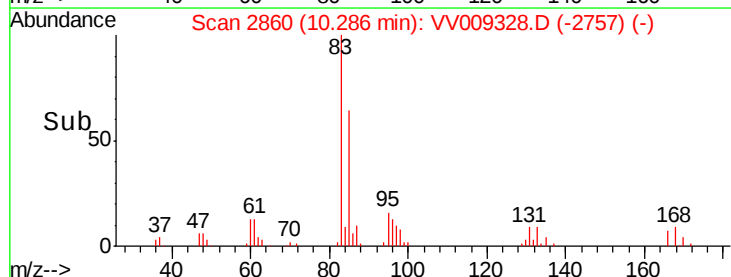
131 9.3 8.1 12.1

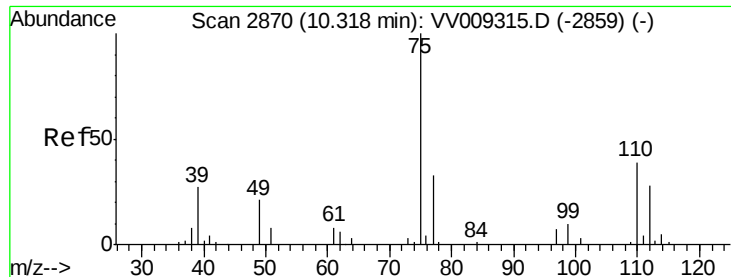


Abundance Ion 83.00 (82.70 to 83.70): VV009328.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV009328.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV009328.D (-2757) (-)





#59

1,2,3-Trichloropropane

Concen: 21.874 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

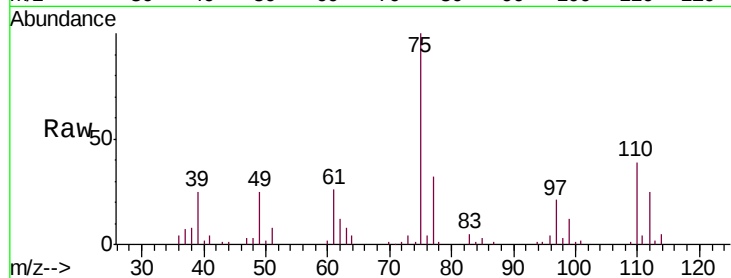
VSTD02577

Tgt Ion: 75 Resp: 36037

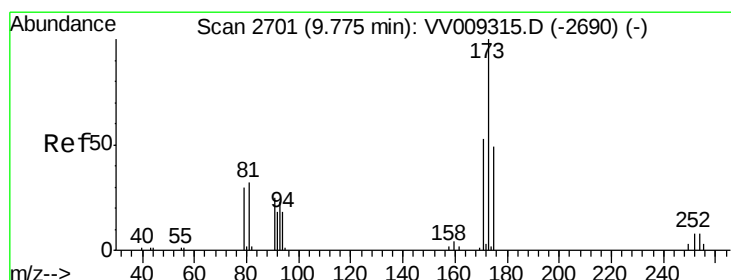
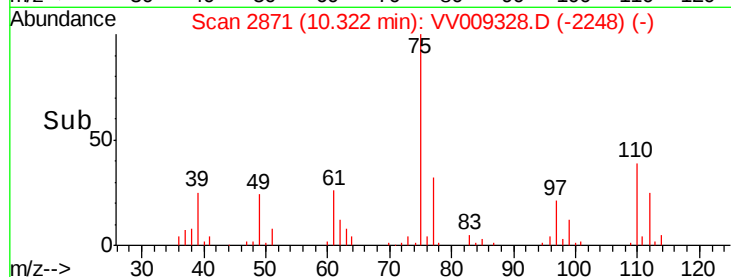
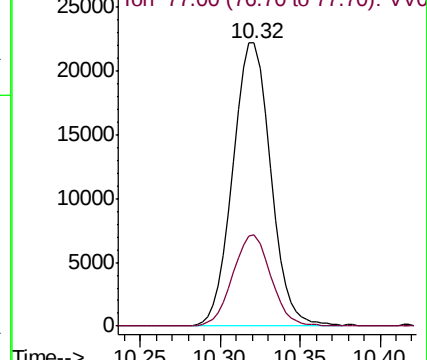
Ion Ratio Lower Upper

75 100

77 32.3 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VV009328.D (-2248) (-)



#62

Bromoform

Concen: 21.460 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

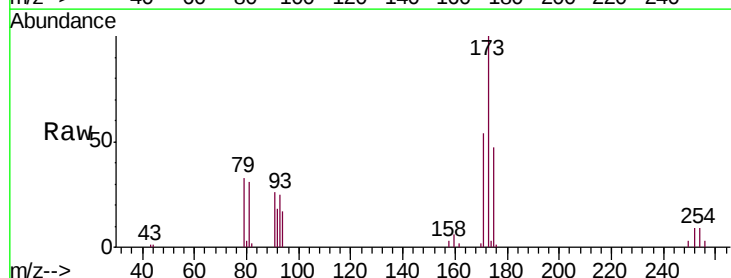
Tgt Ion: 173 Resp: 27207

Ion Ratio Lower Upper

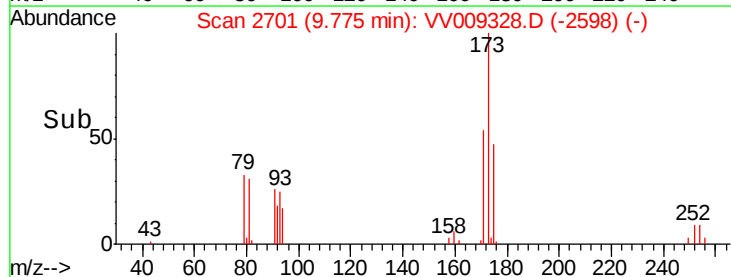
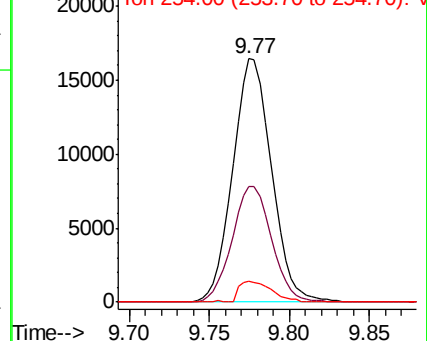
173 100

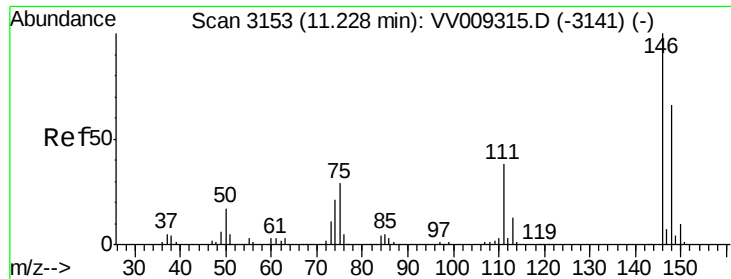
175 48.3 39.1 58.7

254 7.2 5.7 8.5



Abundance Ion 173.00 (172.70 to 173.70): VV009328.D (-2598) (-)

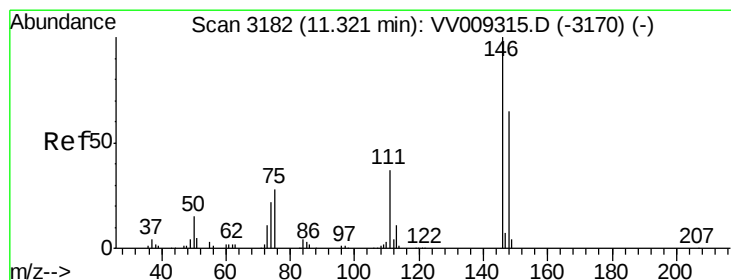
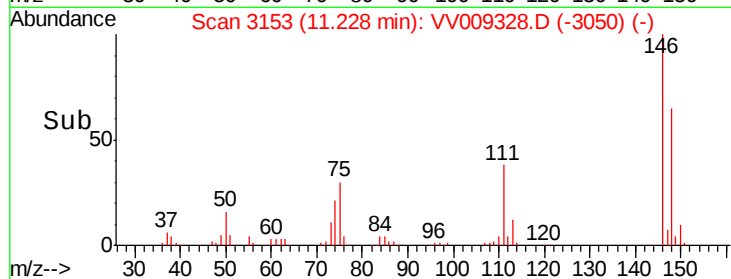
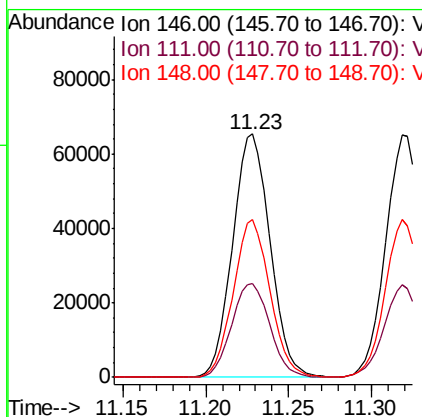
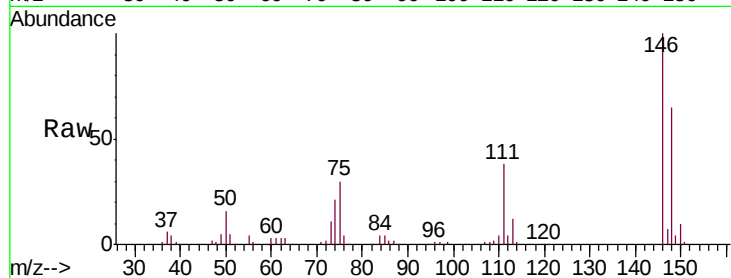




#63
 1,3-Dichlorobenzene
 Concen: 23.366 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009328.D
 Acq: 22 Feb 2019 13:53

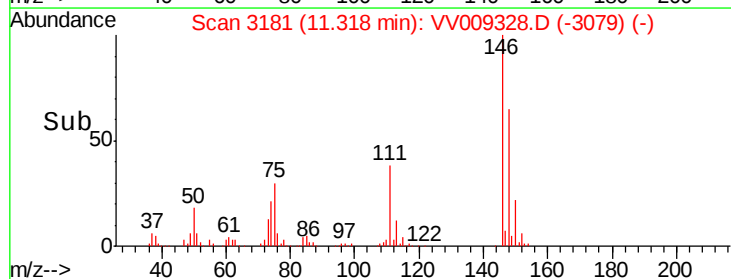
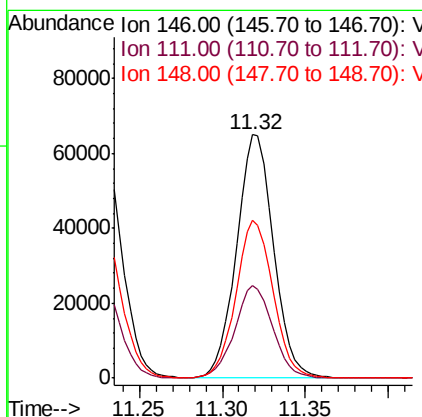
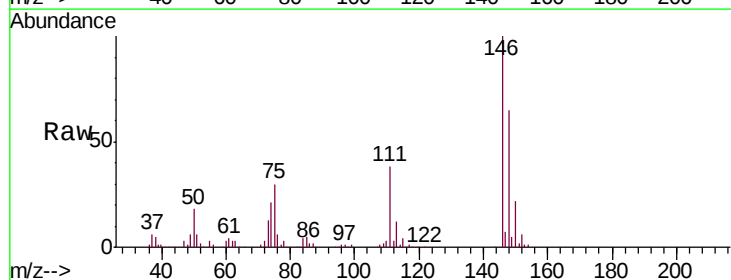
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

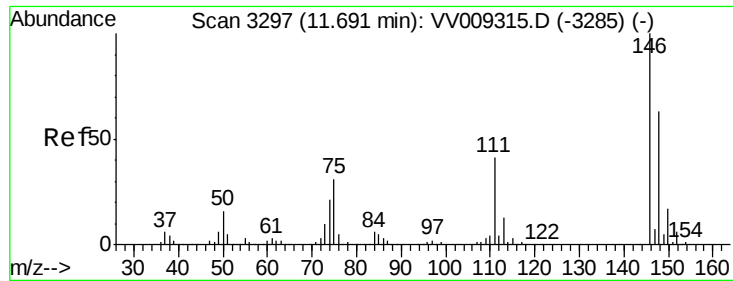
Tgt Ion:146 Resp: 102929
 Ion Ratio Lower Upper
 146 100
 111 38.3 27.6 51.4
 148 64.6 45.4 84.4



#64
 1,4-Dichlorobenzene
 Concen: 23.011 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009328.D
 Acq: 22 Feb 2019 13:53

Tgt Ion:146 Resp: 101043
 Ion Ratio Lower Upper
 146 100
 111 38.2 26.9 50.1
 148 65.0 44.1 81.9





#65

1,2-Dichlorobenzene

Concen: 23.544 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

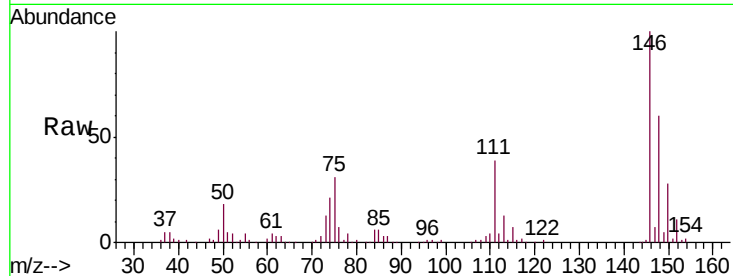
Tgt Ion:146 Resp: 97249

Ion Ratio Lower Upper

146 100

111 38.5 32.6 48.8

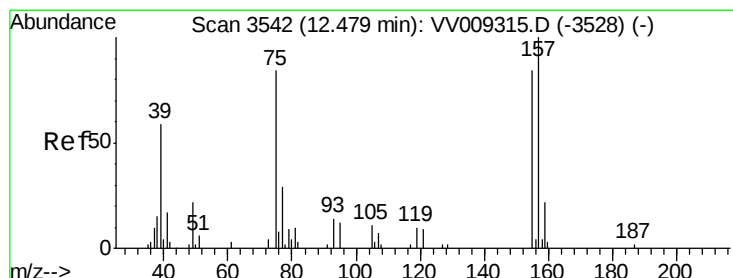
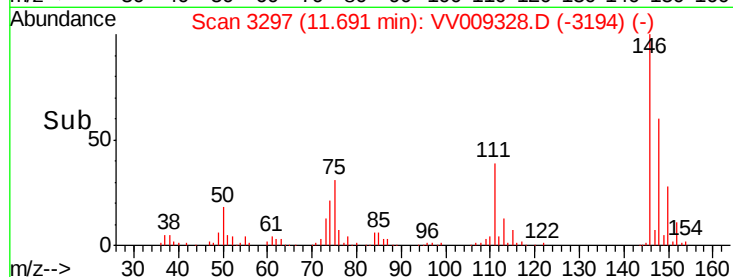
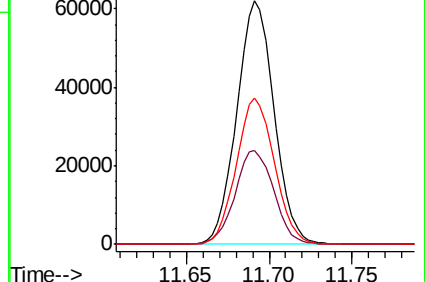
148 60.0 51.1 76.7



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: 17.876 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

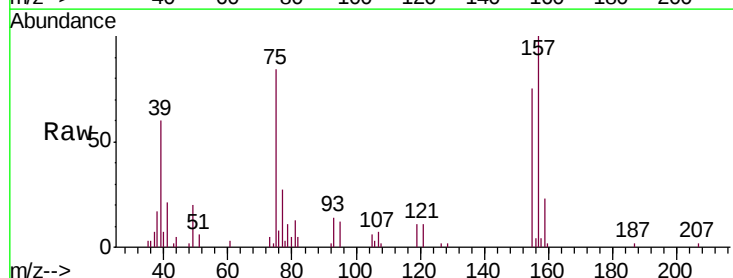
Tgt Ion: 75 Resp: 8200

Ion Ratio Lower Upper

75 100

157 118.7 88.6 133.0

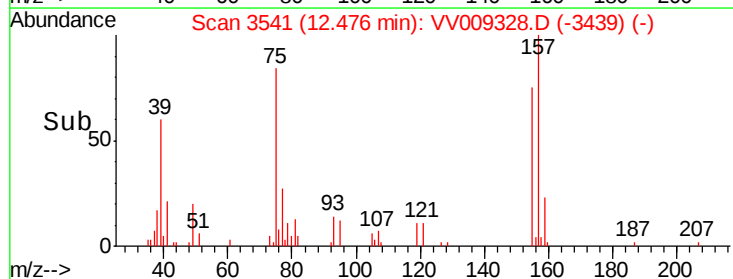
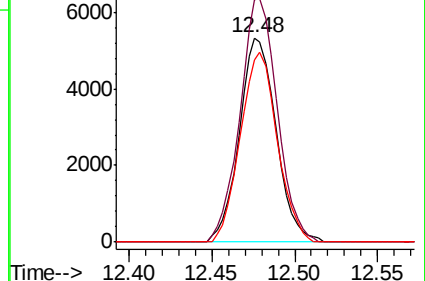
155 89.2 66.6 100.0

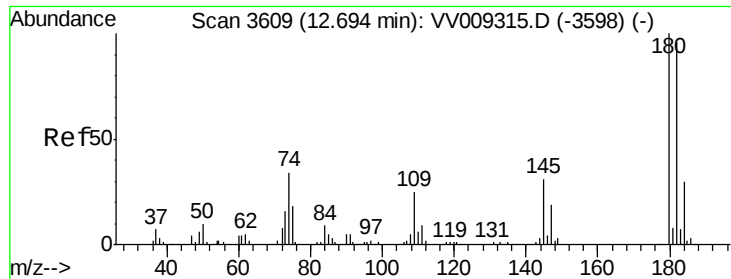


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V





#67

1,3,5-Trichlorobenzene

Concen: 23.894 ug/L

RT: 12.69 min Scan# 3609

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

Tgt Ion:180 Resp: 76162

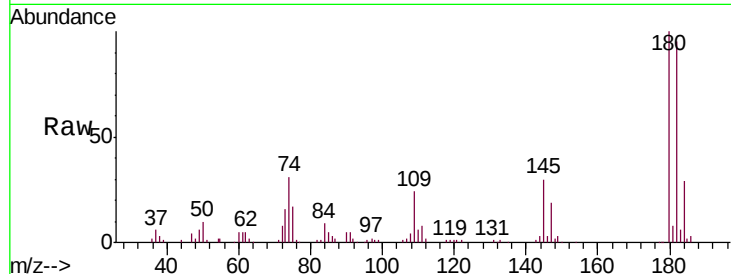
Ion Ratio Lower Upper

180 100

182 93.3 77.4 116.2

184 30.1 24.9 37.3

145 29.9 24.3 36.5

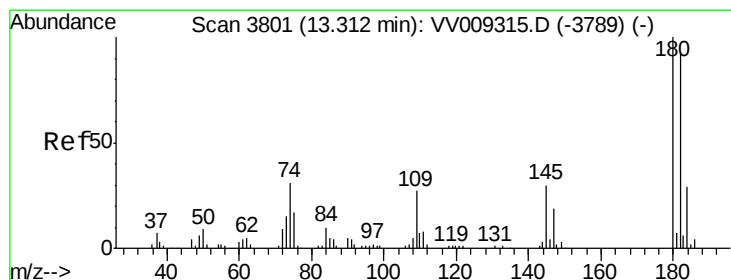
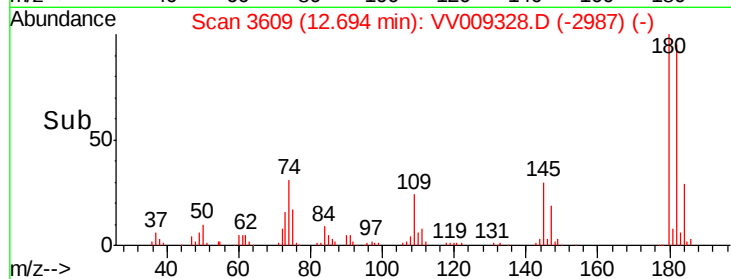
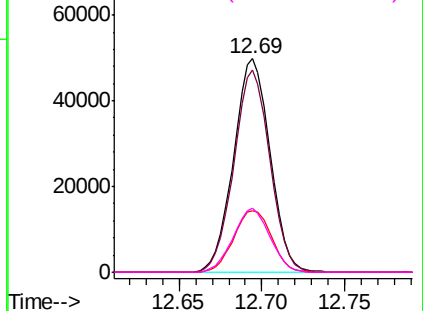


Abundance Ion 180.00 (179.70 to 180.70): V

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: 23.359 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. -0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

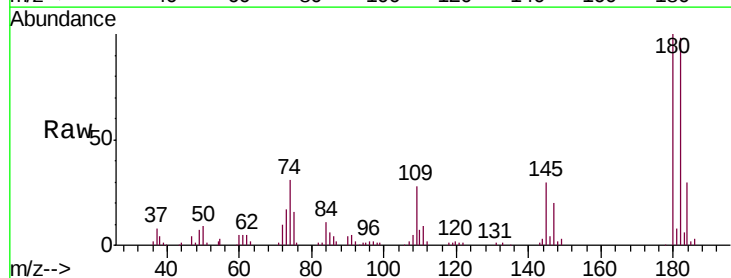
Tgt Ion:180 Resp: 60753

Ion Ratio Lower Upper

180 100

182 97.7 76.7 115.1

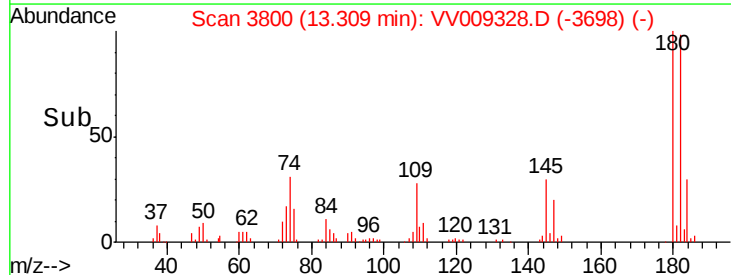
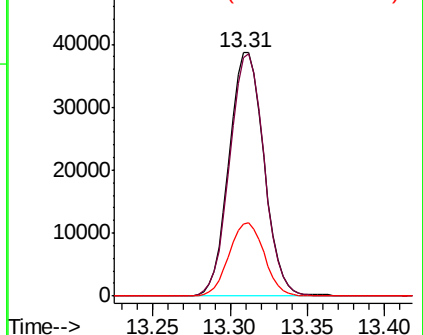
145 30.0 25.1 37.7

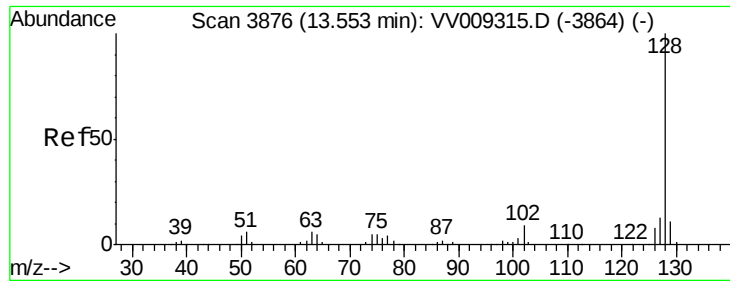


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 21.104 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

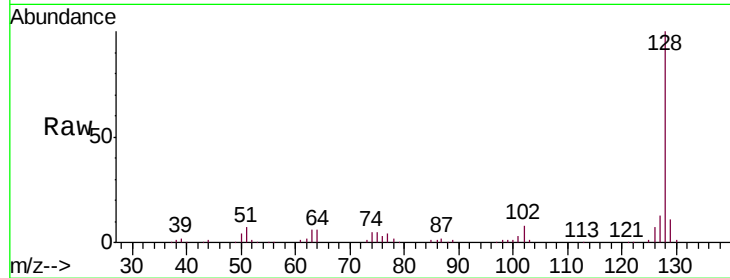
Tgt Ion:128 Resp: 117644

Ion Ratio Lower Upper

128 100

129 10.7 8.6 13.0

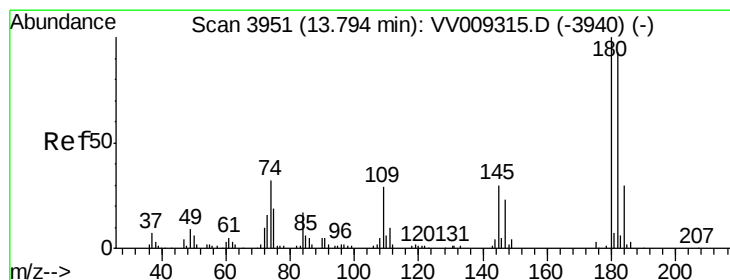
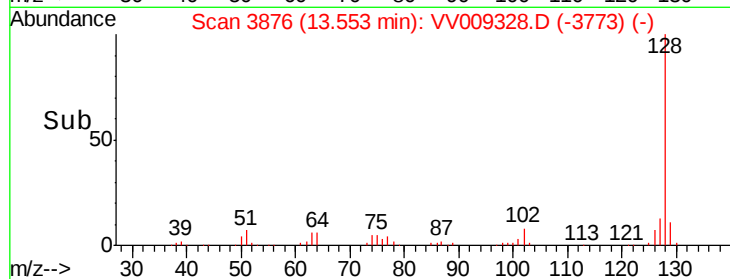
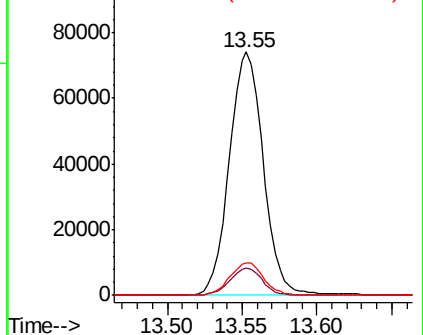
127 13.4 10.5 15.7



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: 22.518 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009328.D

Acq: 22 Feb 2019 13:53

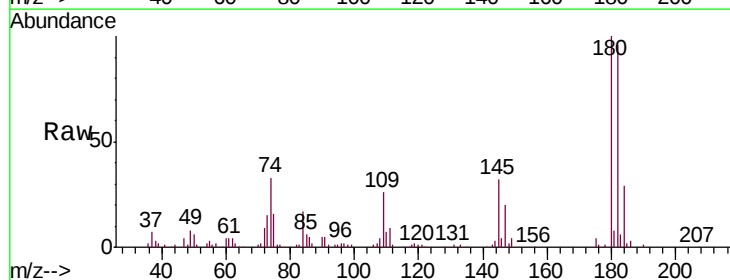
Tgt Ion:180 Resp: 54049

Ion Ratio Lower Upper

180 100

182 97.0 73.6 110.4

145 31.5 26.1 39.1



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

