

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD011819\
 Data File : VD060761.D
 Acq On : 18 Jan 2019 14:29
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Quant Time: Jan 19 02:37:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D011819S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 17 12:34:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.80	168	1486022	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.98	114	2047870	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.16	117	1685045	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.32	152	816199	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.21	65	102504	9.98	ug/l	0.02
Spiked Amount			Recovery	=	19.96%	
35) Dibromofluoromethane	6.68	113	93293	6.22	ug/l	0.02
Spiked Amount			Recovery	=	12.44%	
50) Toluene-d8	10.18	98	267386	5.98	ug/l	0.02
Spiked Amount			Recovery	=	11.96%	
62) 4-Bromofluorobenzene	13.35	95	122870	7.84	ug/l	0.02
Spiked Amount			Recovery	=	15.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	86662	4.564	ug/l	95
3) Chloromethane	1.77	50	58809	3.365	ug/l	95
4) Vinyl Chloride	1.86	62	54566	3.933	ug/l	99
5) Bromomethane	2.14	94	15446	4.970	ug/l	96
6) Chloroethane	2.24	64	13267	3.204	ug/l	92
7) Trichlorofluoromethane	2.50	101	84306	5.463	ug/l	91
8) Diethyl Ether	2.80	74	15326	5.936	ug/l	67
9) 1,1,2-Trichlorotrifluoroet	3.07	101	48640	4.859	ug/l	92
10) Methyl Iodide	3.22	142	48130	4.575	ug/l	89
11) Tert butyl alcohol	3.92	59	30643	71.398	ug/l #	87
12) 1,1-Dichloroethene	3.05	96	33471	4.070	ug/l #	69
13) Acrolein	2.96	56	13443	30.737	ug/l	98
14) Allyl chloride	3.50	41	75414	4.997	ug/l	87
15) Acrylonitrile	4.04	53	91716	36.809	ug/l	98
16) Acetone	3.14	43	67529	37.654	ug/l	91
17) Carbon Disulfide	3.29	76	121609	4.630	ug/l	96
18) Methyl Acetate	3.52	43	31889	7.175	ug/l #	89
19) Methyl tert-butyl Ether	4.08	73	189998	9.105	ug/l	98
20) Methylene Chloride	3.69	84	116948	6.279	ug/l	92
21) trans-1,2-Dichloroethene	4.06	96	85111	5.053	ug/l #	81
22) Diisopropyl ether	4.90	45	276188	5.390	ug/l	90
23) Vinyl Acetate	4.83	43	752769	30.365	ug/l	98
24) 1,1-Dichloroethane	4.77	63	153471	5.694	ug/l	97
25) 2-Butanone	5.83	43	123318	35.934	ug/l	98
26) 2,2-Dichloropropane	5.78	77	147846	6.949	ug/l	88
27) cis-1,2-Dichloroethene	5.80	96	88844	5.196	ug/l	72
28) Bromochloromethane	6.21	49	58645	5.151	ug/l	95
29) Tetrahydrofuran	6.24	42	67315	34.600	ug/l #	87
30) Chloroform	6.42	83	162598	5.995	ug/l	95
31) Cyclohexane	6.72	56	147170	5.674	ug/l	93
32) 1,1,1-Trichloroethane	6.64	97	147892	6.591	ug/l #	89
36) 1,1-Dichloropropene	6.92	75	134983	6.401	ug/l	94
37) Ethyl Acetate	5.94	43	71848	8.147	ug/l #	92
38) Carbon Tetrachloride	6.88	117	131140	7.049	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.64	83	130538	5.428	ug/l	91
40) Benzene	7.22	78	300854	5.523	ug/l	99
41) Methacrylonitrile	6.22	41	81295	16.665	ug/l #	84
42) 1,2-Dichloroethane	7.34	62	121557	8.993	ug/l	94
43) Isopropyl Acetate	9.00	43	84091	7.430	ug/l #	98
44) Trichloroethene	8.30	130	84394	5.235	ug/l	92
45) 1,2-Dichloropropane	8.71	63	77192	5.779	ug/l	97
46) Dibromomethane	8.83	93	48718	6.390	ug/l	86
47) Bromodichloromethane	9.14	83	118768	6.577	ug/l	98
48) Methyl methacrylate	8.89	41	58444	8.502	ug/l #	88
49) 1,4-Dioxane	8.87	88	9938	155.492	ug/l #	72
51) 4-Methyl-2-Pentanone	10.08	43	282968	40.809	ug/l	94
52) Toluene	10.28	92	192202	5.629	ug/l	98
53) t-1,3-Dichloropropene	10.70	75	118282	7.851	ug/l	99
54) cis-1,3-Dichloropropene	9.81	75	134074	6.799	ug/l	99
55) 1,1,2-Trichloroethane	10.97	97	59467	6.473	ug/l	94
56) Ethyl methacrylate	10.82	69	75373	8.832	ug/l	97
57) 1,3-Dichloropropane	11.19	76	95317	6.545	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.62	63	189610	37.709	ug/l	95
59) 2-Hexanone	11.32	43	205692	42.380	ug/l	87
60) Dibromochloromethane	11.47	129	80462	6.875	ug/l	95
61) 1,2-Dibromoethane	11.59	107	57510	6.035	ug/l	98
64) Tetrachloroethene	11.04	164	77944	5.103	ug/l	97
65) Chlorobenzene	12.19	112	209376	5.624	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.30	131	78162	6.530	ug/l	97
67) Ethyl Benzene	12.31	91	367043	5.757	ug/l	95
68) m/p-Xylenes	12.46	106	265459	11.393	ug/l	83
69) o-Xylene	12.84	106	130260	5.893	ug/l	87
70) Styrene	12.87	104	214664	6.029	ug/l #	92
71) Bromoform	13.03	173	54838	6.940	ug/l	95
73) Isopropylbenzene	13.20	105	349531	6.015	ug/l	97
74) N-amyl acetate	13.06	43	108886	7.939	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.50	83	72648	7.713	ug/l	92
76) 1,2,3-Trichloropropane	13.53	75	83184	8.952	ug/l	94
77) Bromobenzene	13.47	156	97671	6.366	ug/l	98
78) n-propylbenzene	13.57	91	467911	6.298	ug/l	99
79) 2-Chlorotoluene	13.64	91	265305	6.667	ug/l	95
80) 1,3,5-Trimethylbenzene	14.03	105	314435	7.007	ug/l	89
81) trans-1,4-Dichloro-2-buten	13.27	75	21628	8.423	ug/l #	82
82) 4-Chlorotoluene	13.75	91	309267	6.857	ug/l	99
83) tert-Butylbenzene	13.99	119	344308	6.742	ug/l	95
84) 1,2,4-Trimethylbenzene	14.03	105	314435	6.803	ug/l	95
85) sec-Butylbenzene	14.17	105	361237	5.800	ug/l	97
86) p-Isopropyltoluene	14.29	119	322431	6.414	ug/l	92
87) 1,3-Dichlorobenzene	14.26	146	167106	5.933	ug/l	93
88) 1,4-Dichlorobenzene	14.34	146	158830	5.723	ug/l	94
89) n-Butylbenzene	14.60	91	317157	6.173	ug/l	97
90) Hexachloroethane	14.81	117	81116	6.568	ug/l	86
91) 1,2-Dichlorobenzene	14.61	146	139460	6.173	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.19	75	11406	10.307	ug/l	92

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ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC005

Quant Time: Jan 19 02:37:57 2019
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Quant Title : SW846 8260
QLast Update : Thu Jan 17 12:34:41 2019
Response via : Initial Calibration

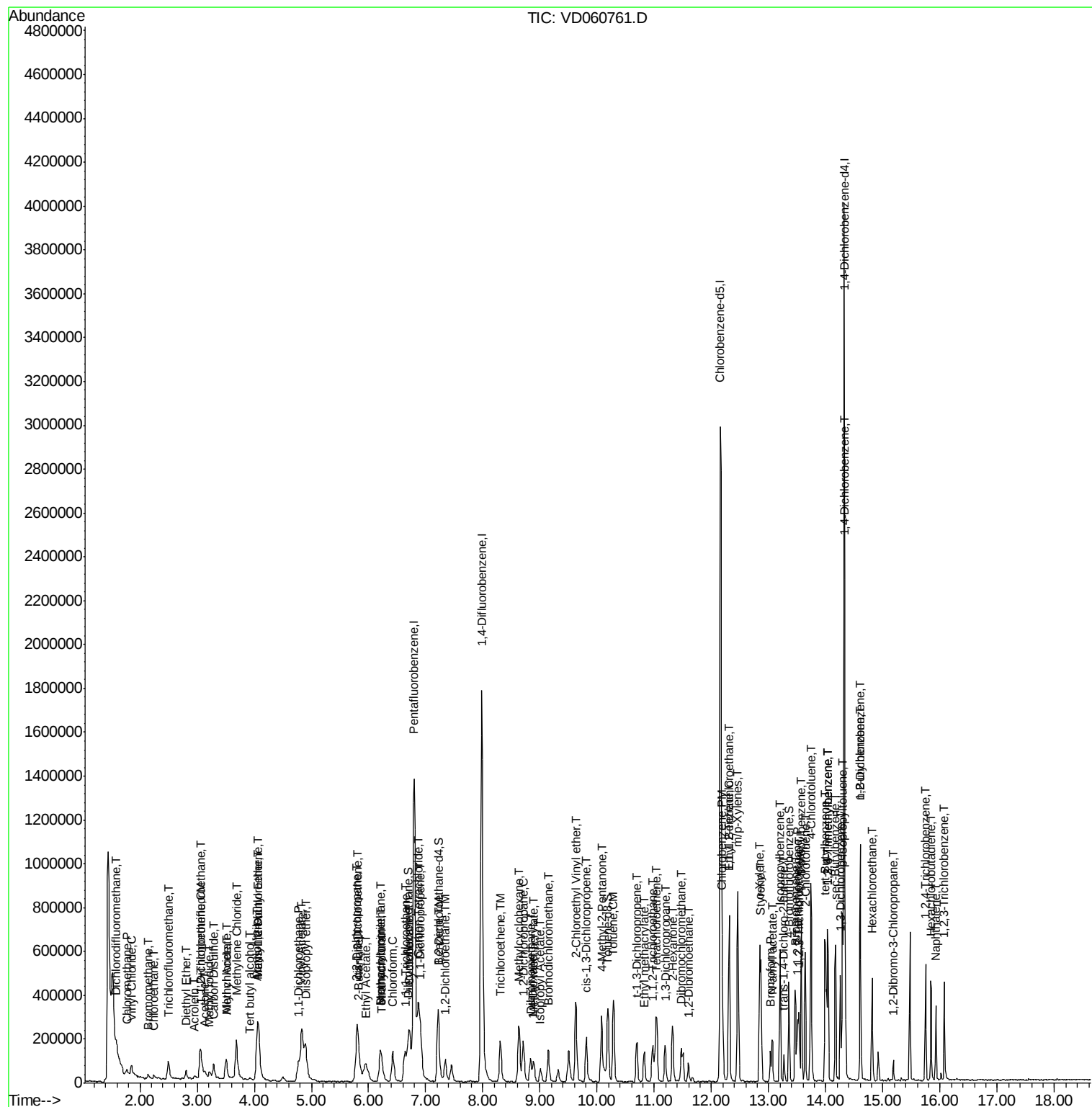
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.75	180	118137	6.571	ug/l	96
94) Hexachlorobutadiene	15.85	225	79788	6.004	ug/l	99
95) Naphthalene	15.92	128	191023	8.940	ug/l	98
96) 1,2,3-Trichlorobenzene	16.07	180	103872	7.391	ug/l	98

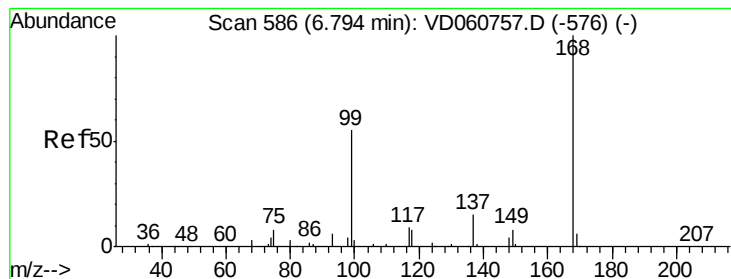
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD011819\
 Data File : VD060761.D
 Acq On : 18 Jan 2019 14:29
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC005

Quant Time: Jan 19 02:37:57 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D011819S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 17 12:34:41 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.80 min Scan# 586

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

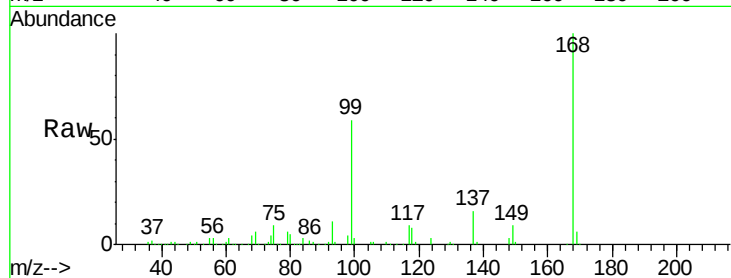
VSTDIC005

Tot Ion:168 Resp: 1486022

Ion Ratio Lower Upper

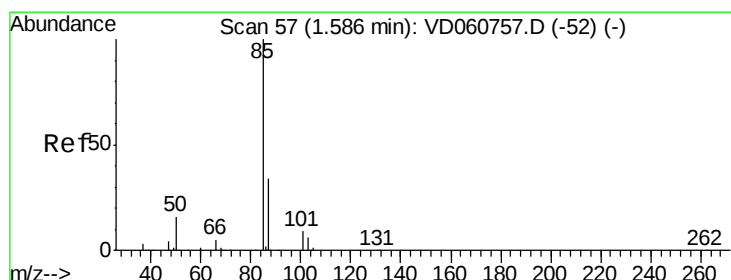
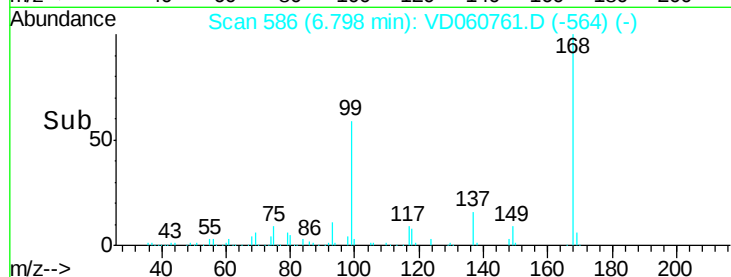
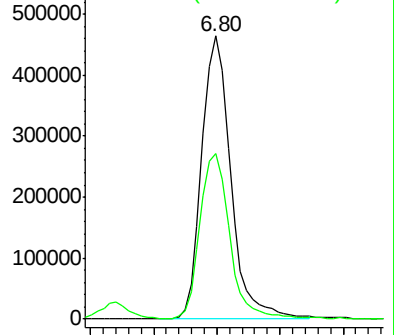
168 100

99 58.7 38.7 58.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 4.564 ug/l

RT: 1.59 min Scan# 57

Delta R.T. 0.01 min

Lab File: VD060761.D

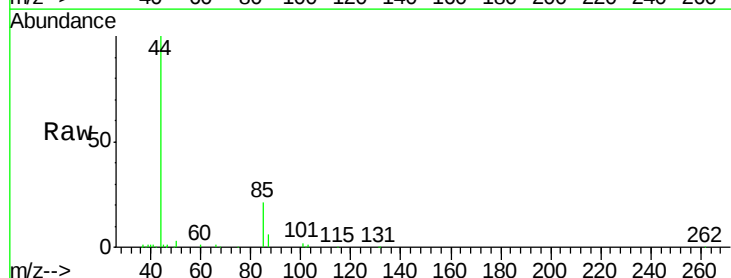
Acq: 18 Jan 2019 14:29

Tgt Ion: 85 Resp: 86662

Ion Ratio Lower Upper

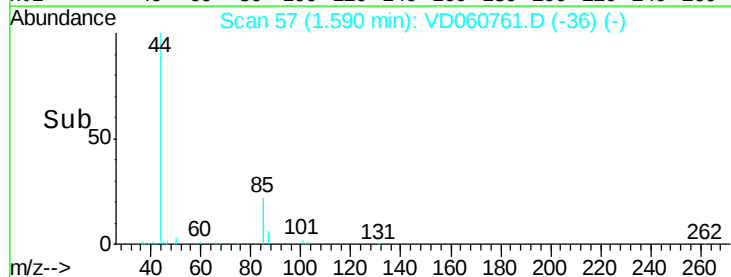
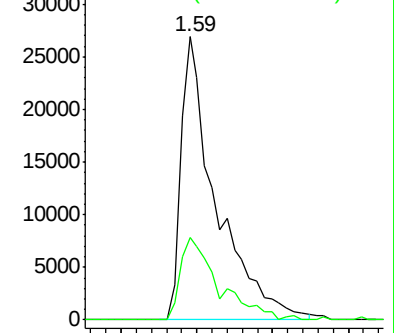
85 100

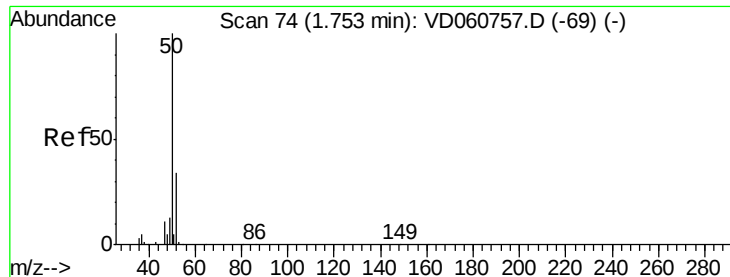
87 29.2 16.0 47.9



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 3.365 ug/l

RT: 1.77 min Scan# 75

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

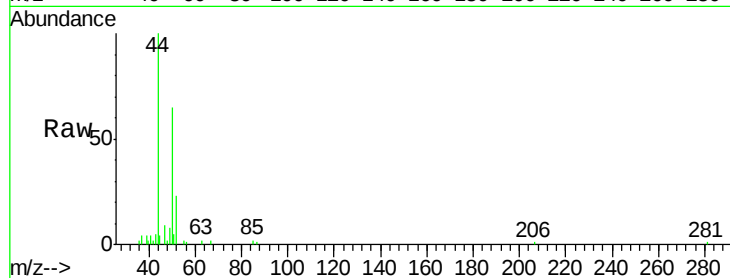
VSTDIC005

Tot Ion: 50 Resp: 58809

Ion Ratio Lower Upper

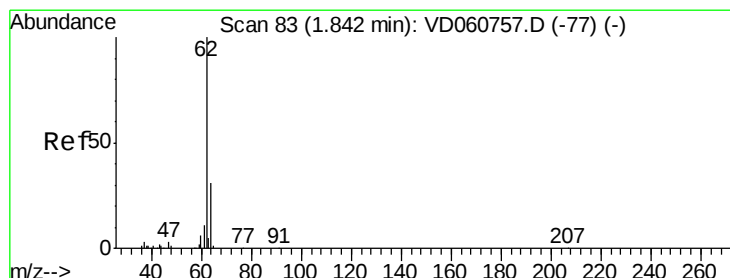
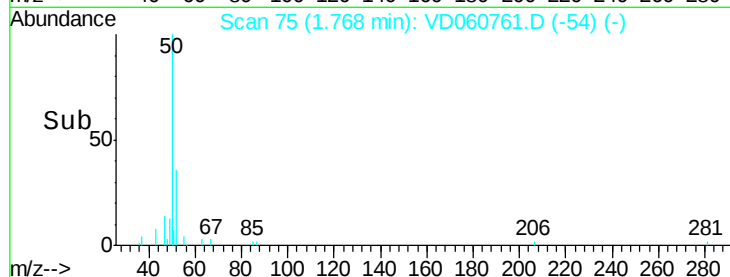
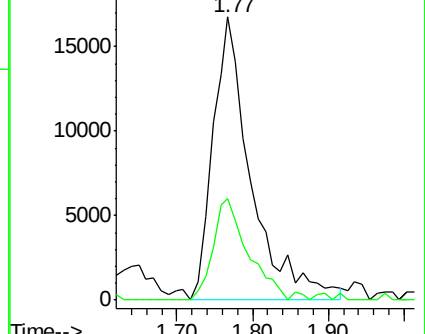
50 100

52 36.0 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 3.933 ug/l

RT: 1.86 min Scan# 84

Delta R.T. 0.01 min

Lab File: VD060761.D

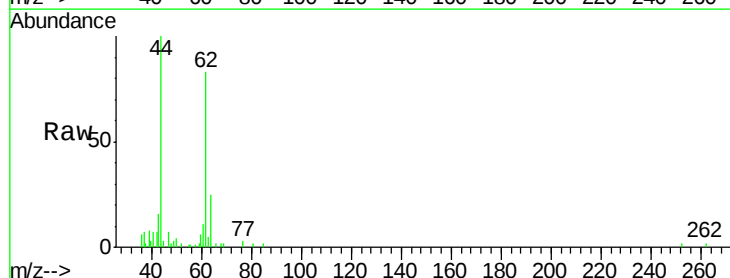
Acq: 18 Jan 2019 14:29

Tgt Ion: 62 Resp: 54566

Ion Ratio Lower Upper

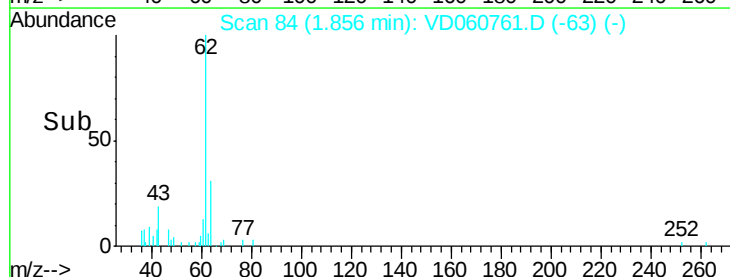
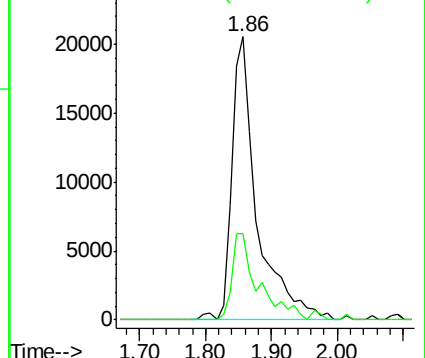
62 100

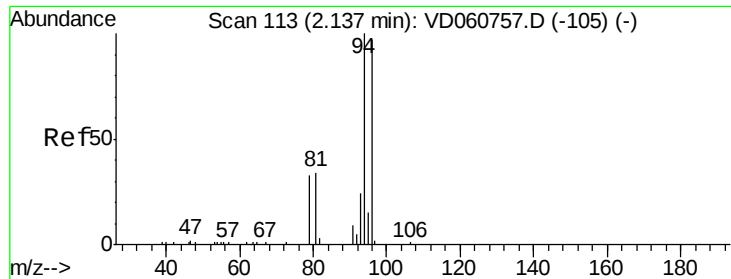
64 30.5 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 4.970 ug/l

RT: 2.14 min Scan# 113

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

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ClientSampleId :

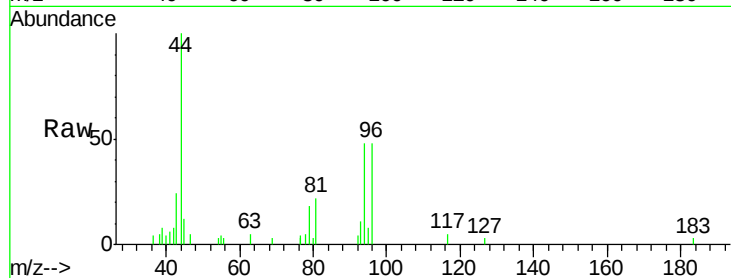
VSTDIC005

Tot Ion: 94 Resp: 15446

Ion Ratio Lower Upper

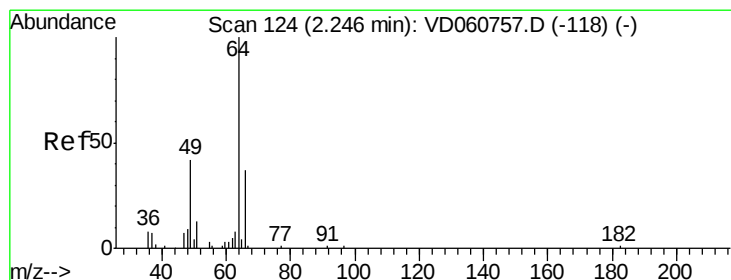
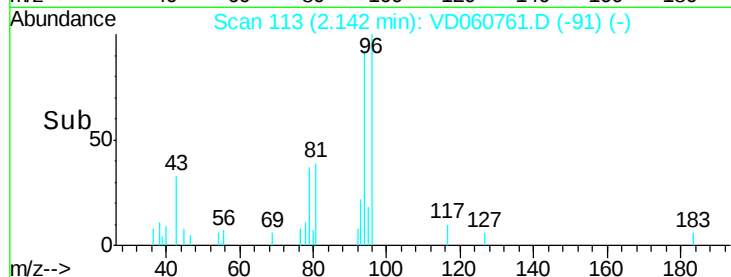
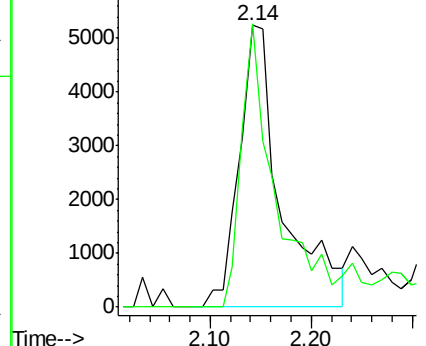
94 100

96 100.4 77.2 115.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 3.204 ug/l

RT: 2.24 min Scan# 123

Delta R.T. 0.01 min

Lab File: VD060761.D

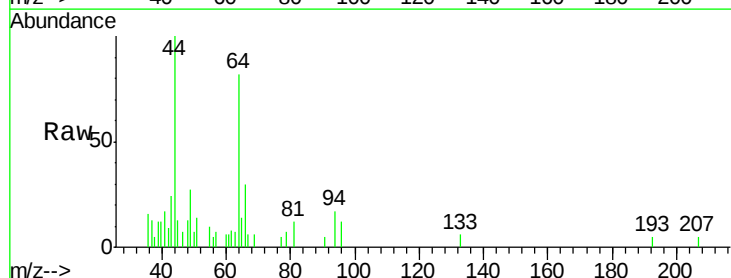
Acq: 18 Jan 2019 14:29

Tgt Ion: 64 Resp: 13267

Ion Ratio Lower Upper

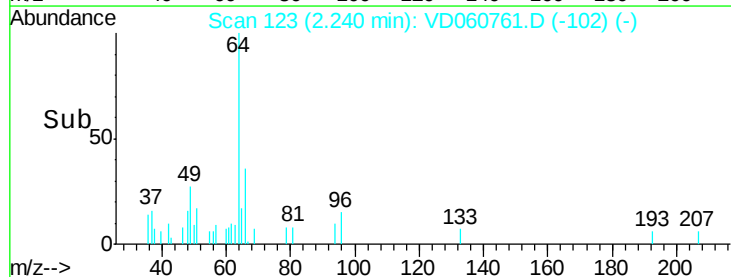
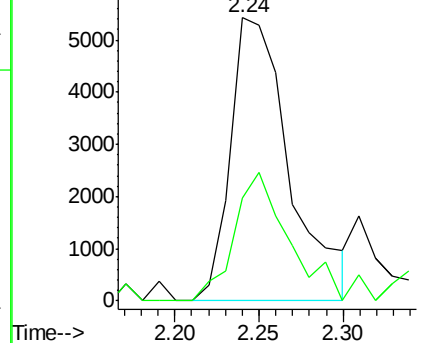
64 100

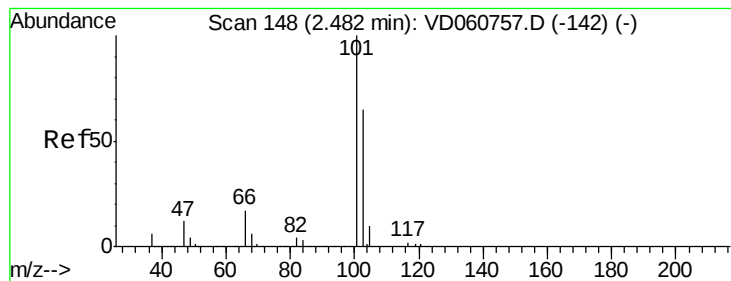
66 36.4 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



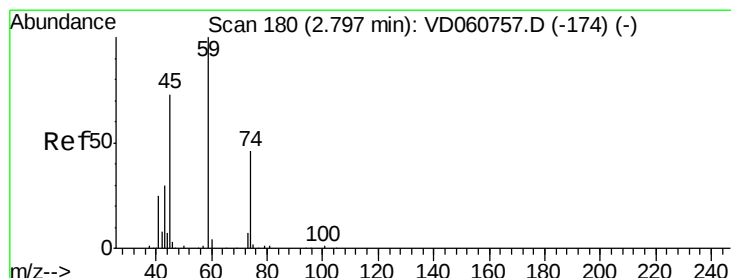
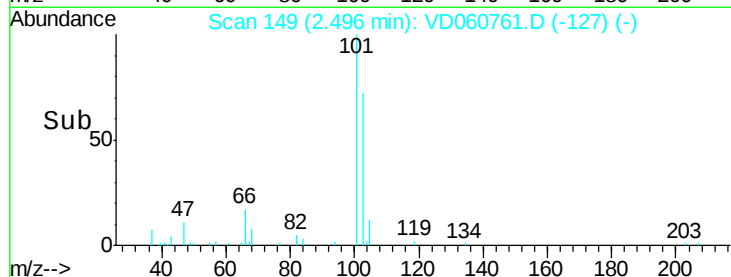
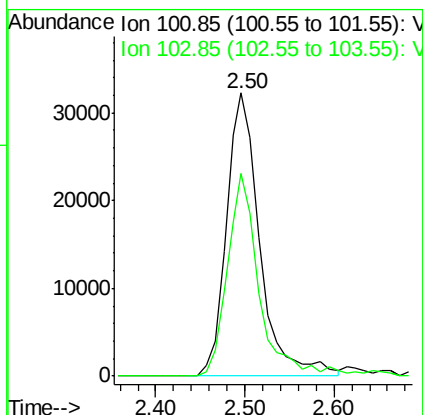
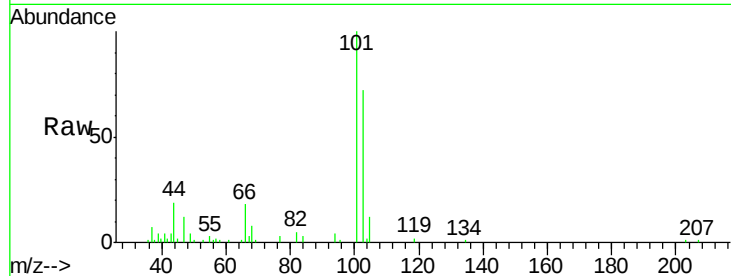


#7

Trichlorofluoromethane
 Concen: 5.463 ug/l
 RT: 2.50 min Scan# 149
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

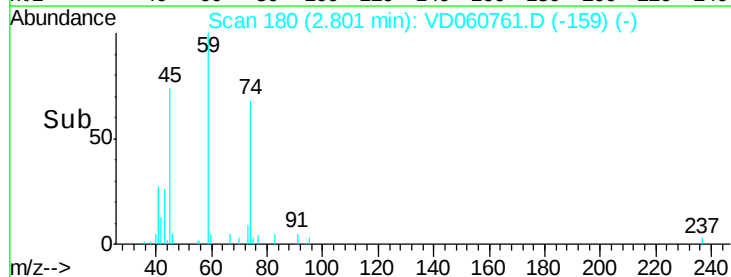
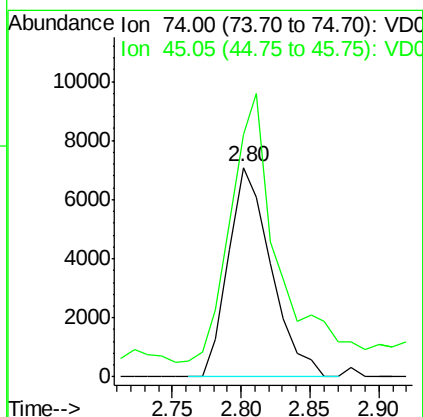
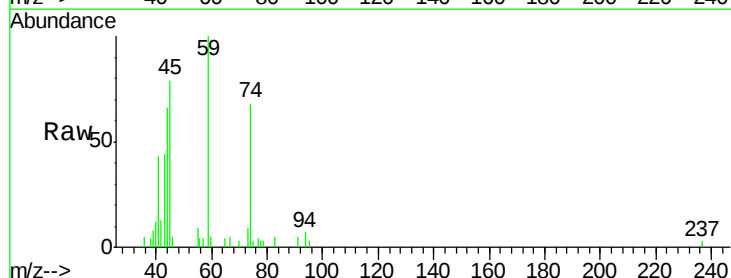
Tot Ion:101 Resp: 84306
 Ion Ratio Lower Upper
 101 100
 103 71.7 51.9 77.9

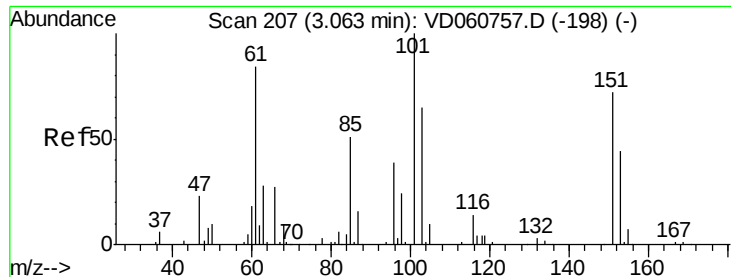


#8

Diethyl Ether
 Concen: 5.936 ug/l
 RT: 2.80 min Scan# 180
 Delta R.T. 0.01 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Tgt Ion: 74 Resp: 15326
 Ion Ratio Lower Upper
 74 100
 45 115.7 79.3 238.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.859 ug/l

RT: 3.07 min Scan# 207

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

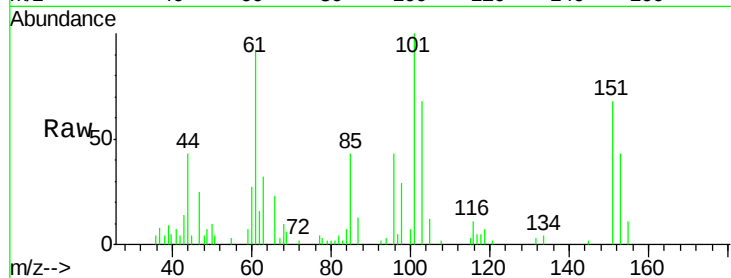
Tot Ion:101 Resp: 48640

Ion Ratio Lower Upper

101 100

85 43.4 33.4 50.0

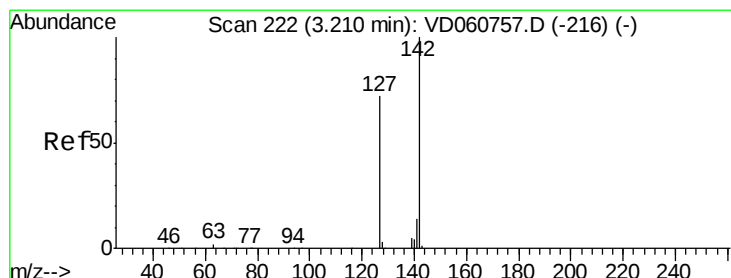
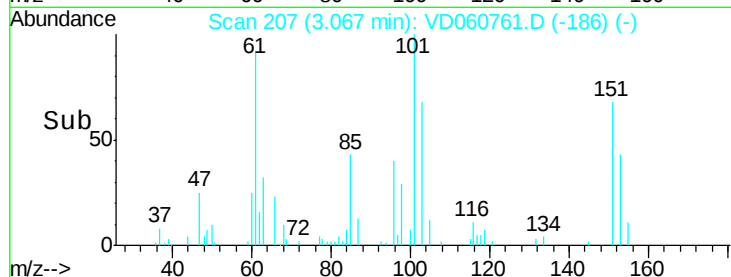
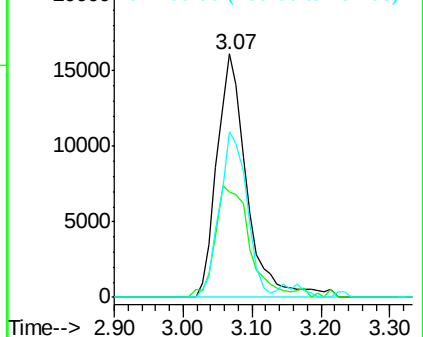
151 68.2 47.5 71.3



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 4.575 ug/l

RT: 3.22 min Scan# 223

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

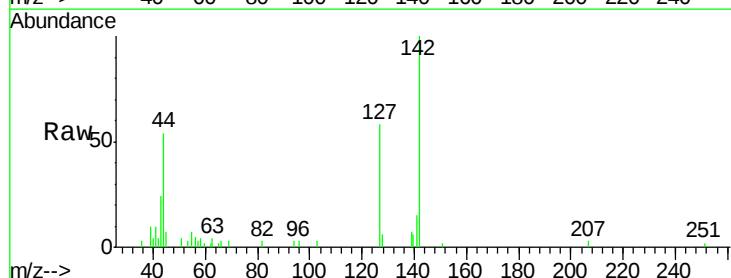
Tgt Ion:142 Resp: 48130

Ion Ratio Lower Upper

142 100

127 58.5 39.5 59.3

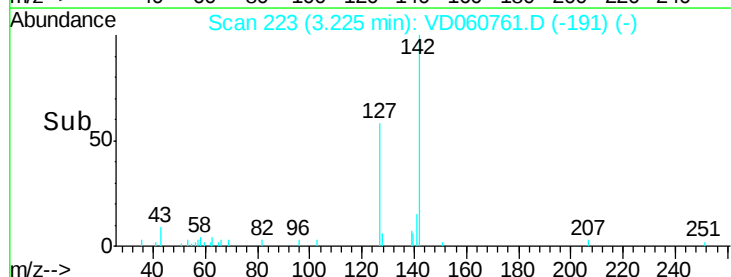
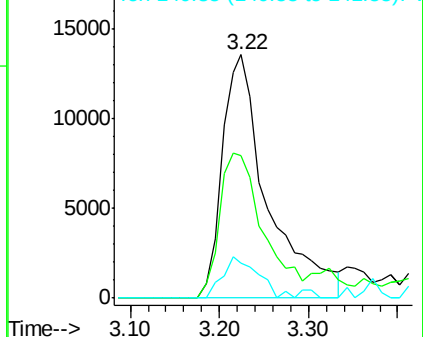
141 14.5 11.3 16.9

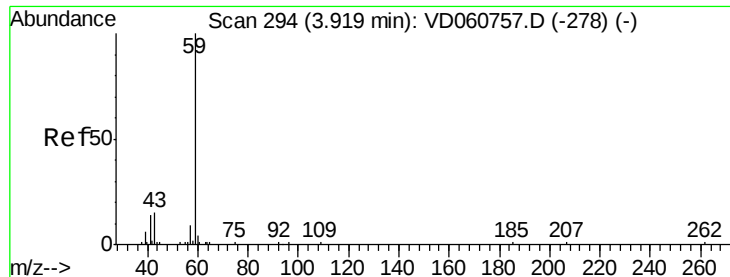


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



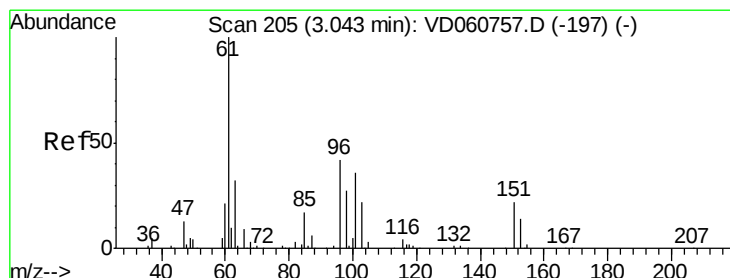
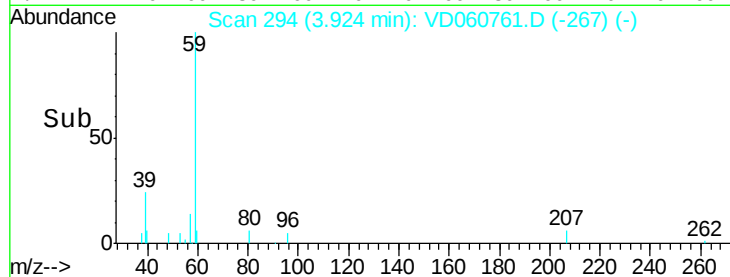
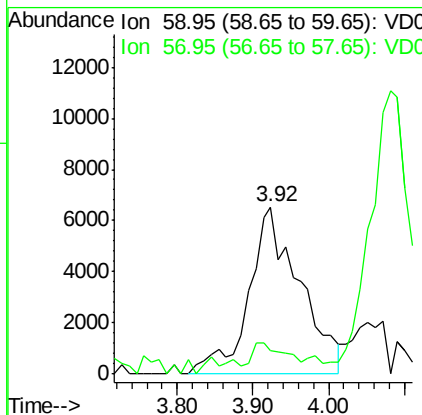
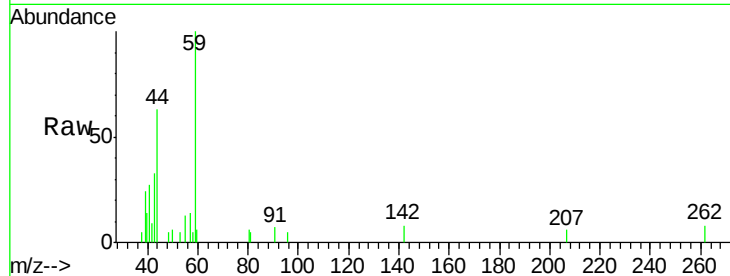


#11

Tert butyl alcohol
 Concen: 71.398 ug/l
 RT: 3.92 min Scan# 294
 Delta R.T. 0.06 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

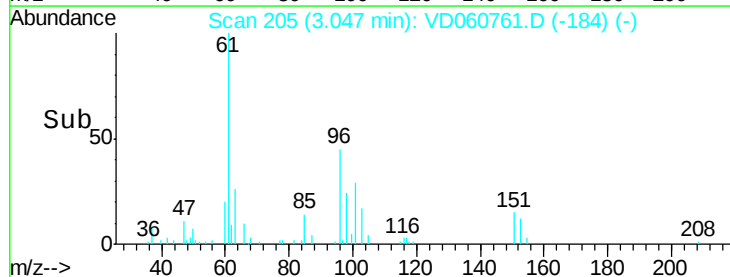
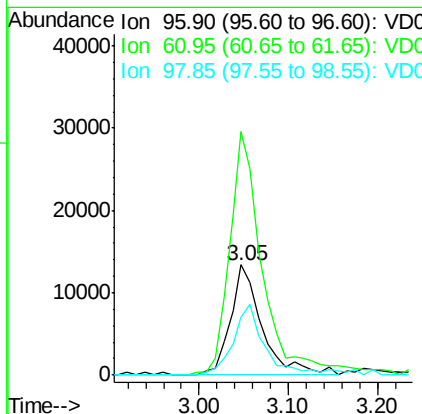
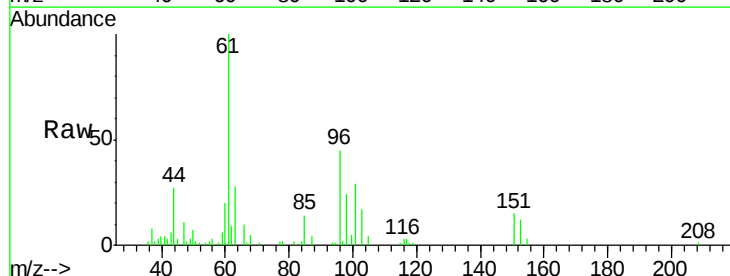
Tot Ion: 59 Resp: 30643
 Ion Ratio Lower Upper
 59 100
 57 14.4 7.8 11.6#

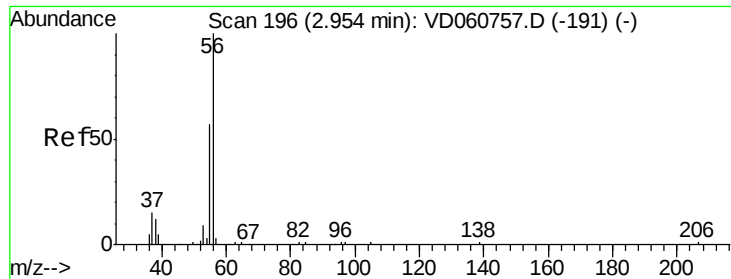


#12

1,1-Dichloroethene
 Concen: 4.070 ug/l
 RT: 3.05 min Scan# 205
 Delta R.T. 0.01 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Tgt Ion: 96 Resp: 33471
 Ion Ratio Lower Upper
 96 100
 61 221.0 136.2 204.4#
 98 52.3 50.7 76.1





#13

Acrolein

Concen: 30.737 ug/l

RT: 2.96 min Scan# 196

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

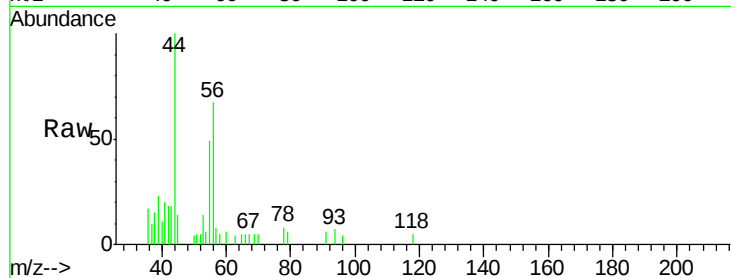
VSTDIC005

Tot Ion: 56 Resp: 13443

Ion Ratio Lower Upper

56 100

55 74.1 57.7 86.5

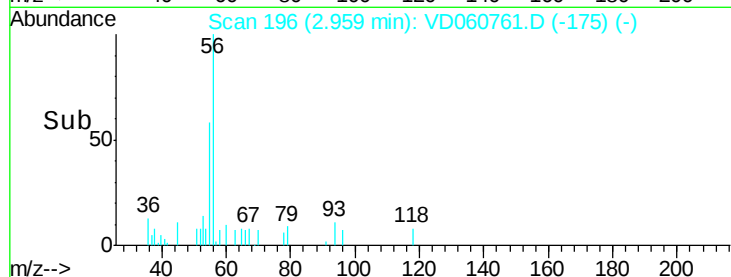


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.96

Time-->

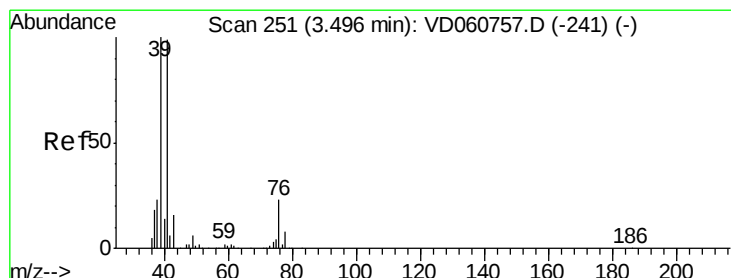


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.96

Time-->



#14

Allyl chloride

Concen: 4.997 ug/l

RT: 3.50 min Scan# 251

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

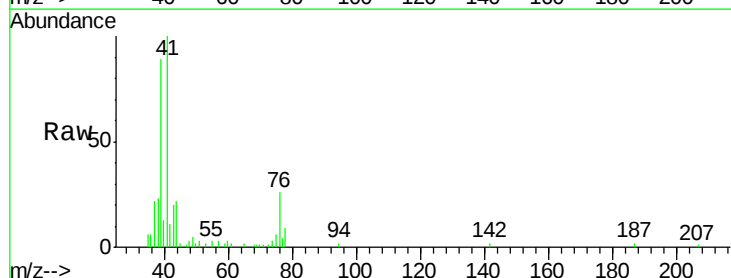
Tgt Ion: 41 Resp: 75414

Ion Ratio Lower Upper

41 100

39 89.3 59.6 89.4

76 26.2 21.8 32.6



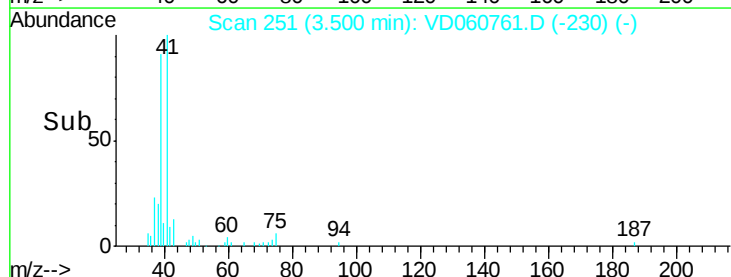
Abundance Ion 41.05 (40.75 to 41.75): VDC

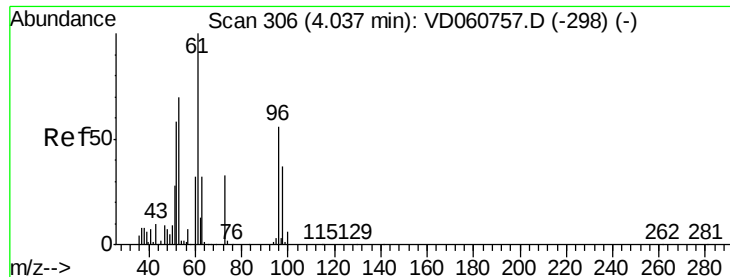
Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

3.50

Time-->





#15

Acrylonitrile

Concen: 36.809 ug/l

RT: 4.04 min Scan# 306

Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

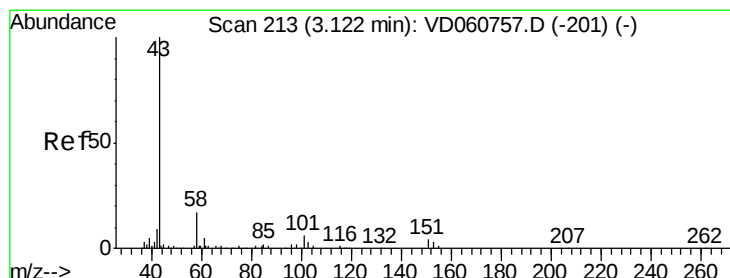
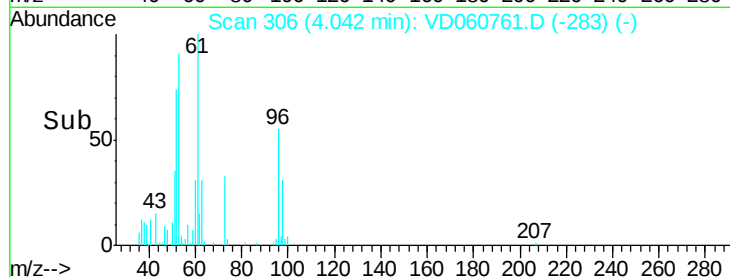
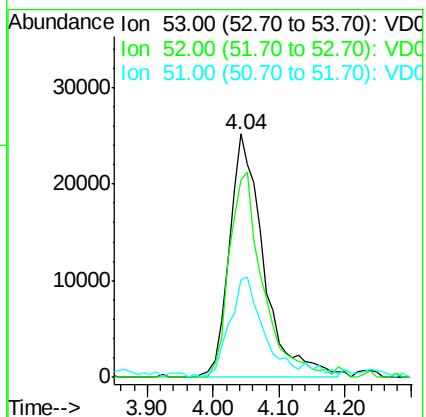
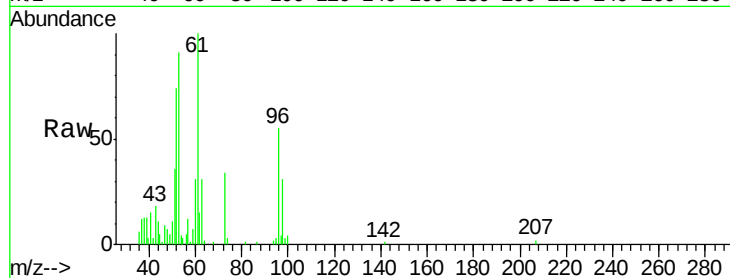
Tot Ion: 53 Resp: 91716

Ion Ratio Lower Upper

53 100

52 81.1 66.7 100.1

51 40.0 32.7 49.1



#16

Acetone

Concen: 37.654 ug/l

RT: 3.14 min Scan# 214

Delta R.T. 0.03 min

Lab File: VD060761.D

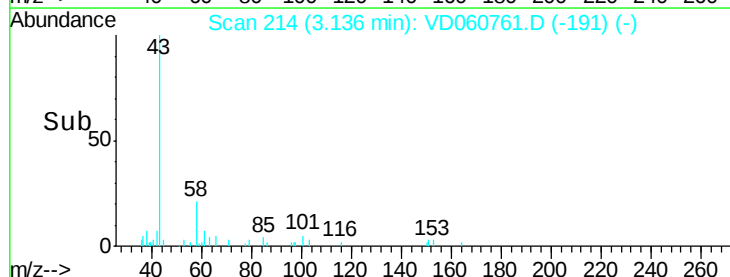
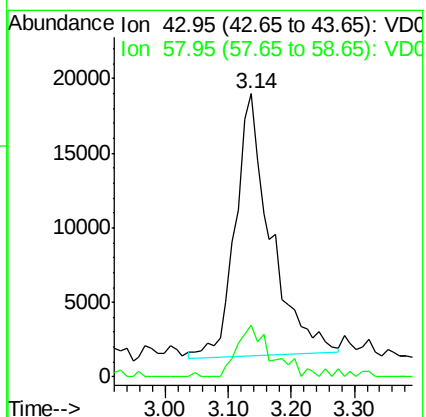
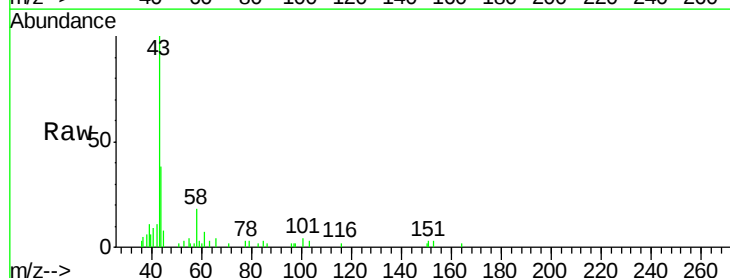
Acq: 18 Jan 2019 14:29

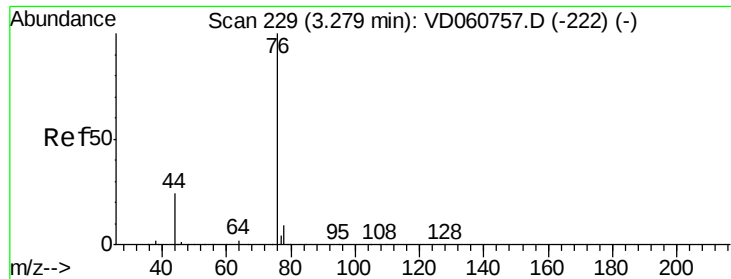
Tgt Ion: 43 Resp: 67529

Ion Ratio Lower Upper

43 100

58 18.5 18.2 27.2

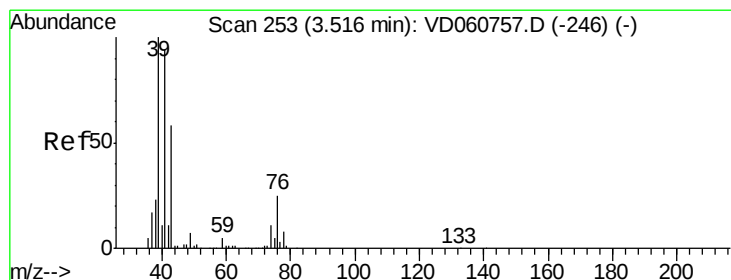
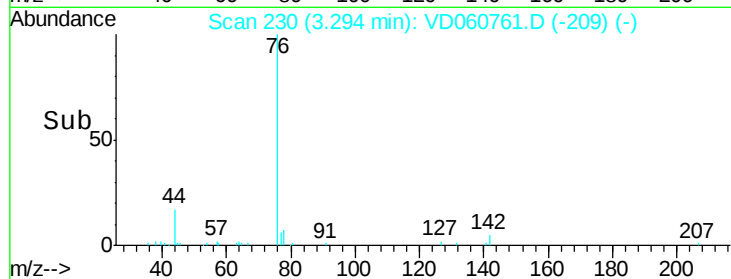
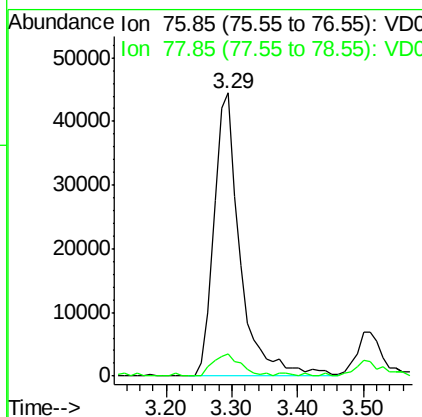
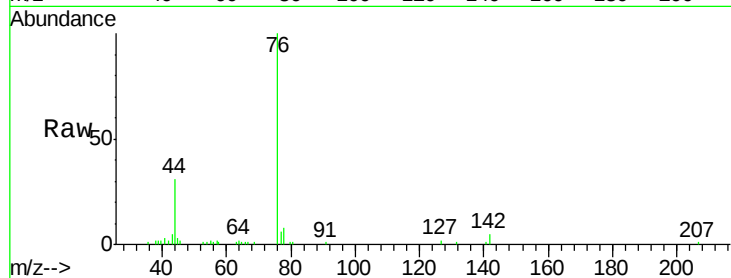




#17
Carbon Disulfide
Concen: 4.630 ug/l
RT: 3.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

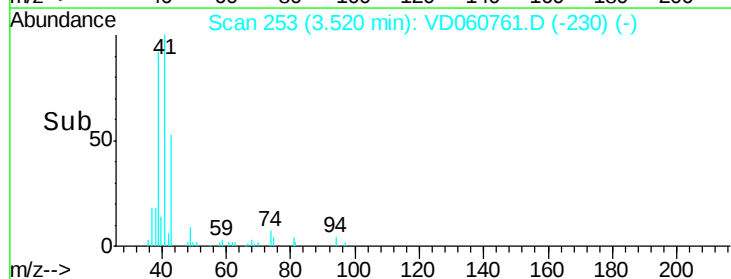
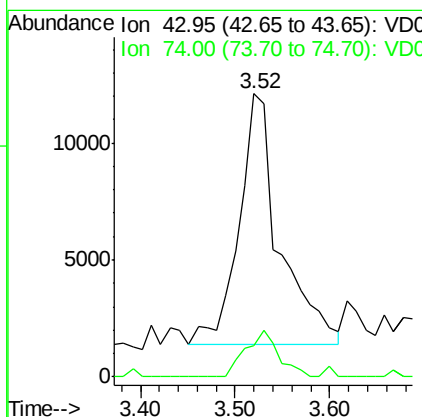
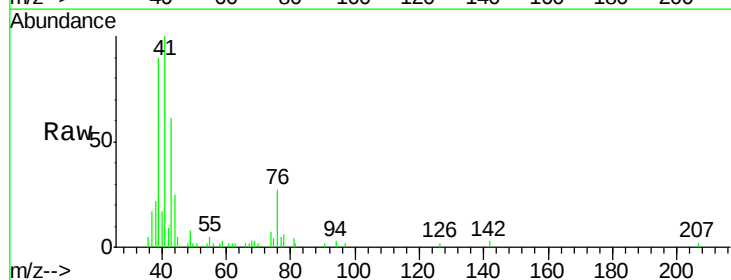
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

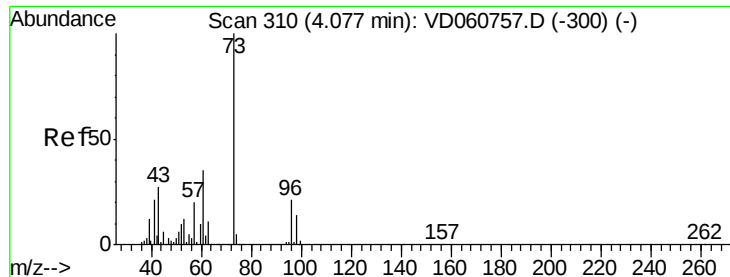
Tot Ion: 76 Resp: 121609
Ion Ratio Lower Upper
76 100
78 7.8 7.4 11.0



#18
Methyl Acetate
Concen: 7.175 ug/l
RT: 3.52 min Scan# 253
Delta R.T. 0.03 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion: 43 Resp: 31889
Ion Ratio Lower Upper
43 100
74 10.9 12.4 18.6#

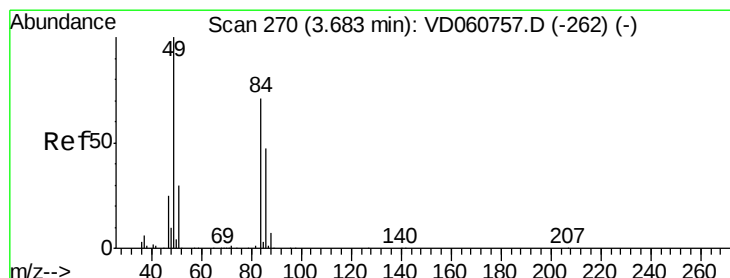
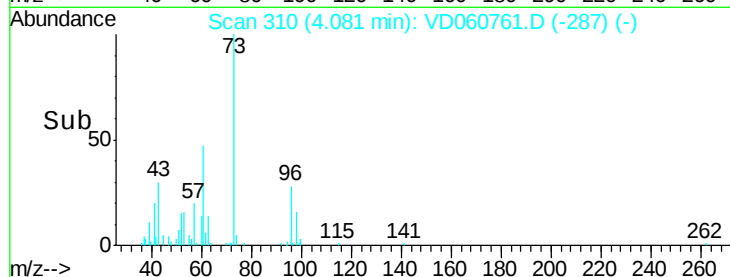
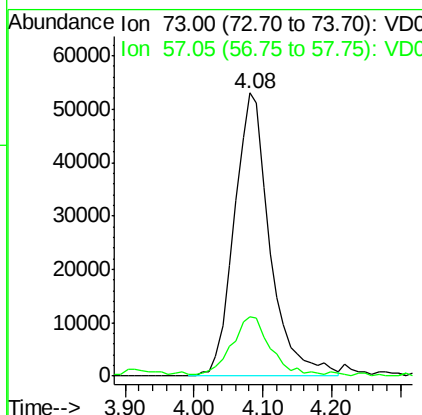
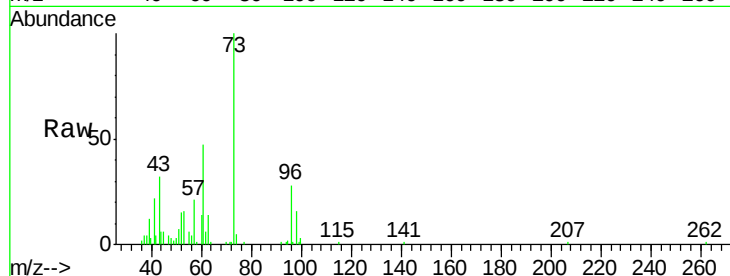




#19
Methyl tert-butyl Ether
Concen: 9.105 ug/l
RT: 4.08 min Scan# 310
Delta R.T. 0.03 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

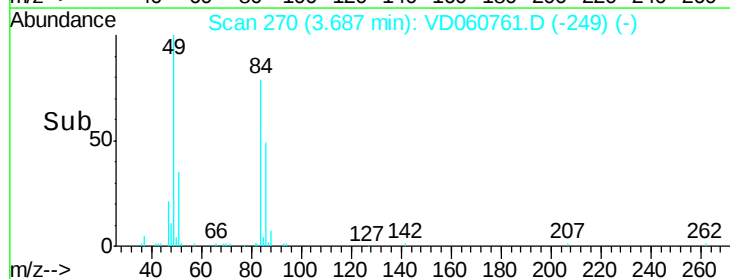
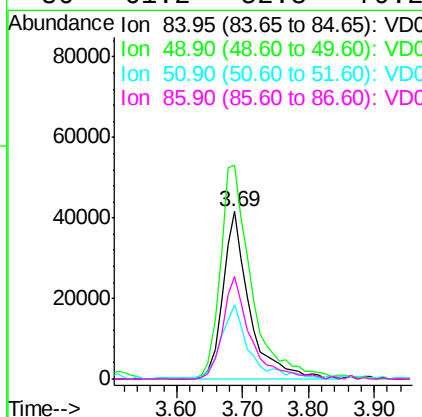
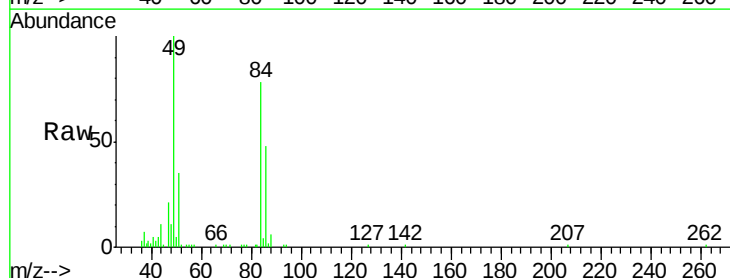
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

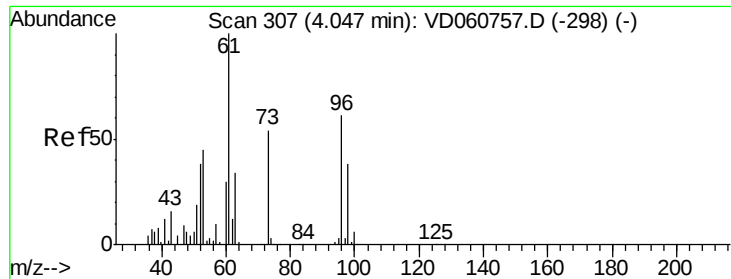
Tot Ion: 73 Resp: 189998
Ion Ratio Lower Upper
73 100
57 20.9 17.6 26.4



#20
Methylene Chloride
Concen: 6.279 ug/l
RT: 3.69 min Scan# 270
Delta R.T. 0.01 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion: 84 Resp: 116948
Ion Ratio Lower Upper
84 100
49 127.7 113.6 170.4
51 44.2 34.7 52.1
86 61.2 52.8 79.2





#21

trans-1,2-Dichloroethene

Concen: 5.053 ug/l

RT: 4.06 min Scan# 308

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

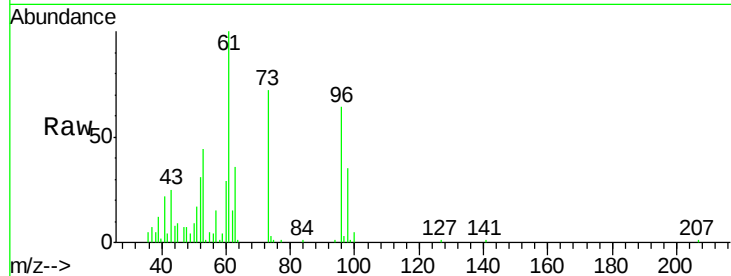
Tot Ion: 96 Resp: 85111

Ion Ratio Lower Upper

96 100

61 157.0 104.2 156.2#

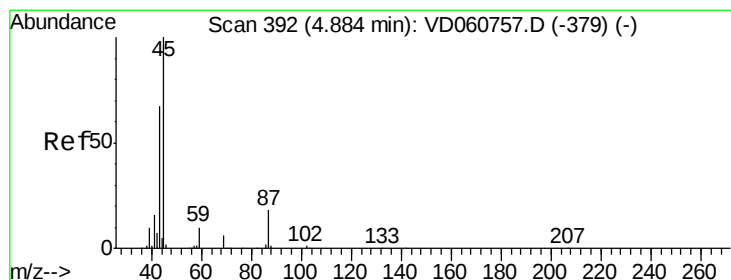
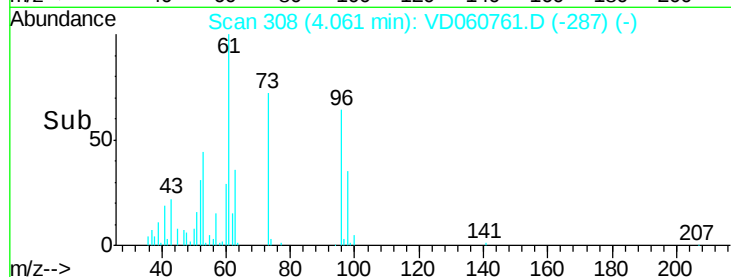
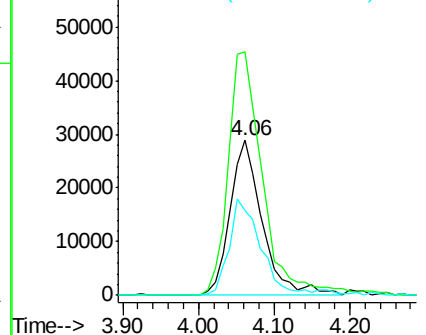
98 54.4 51.2 76.8



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 5.390 ug/l

RT: 4.90 min Scan# 393

Delta R.T. 0.05 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Tgt Ion: 45 Resp: 276188

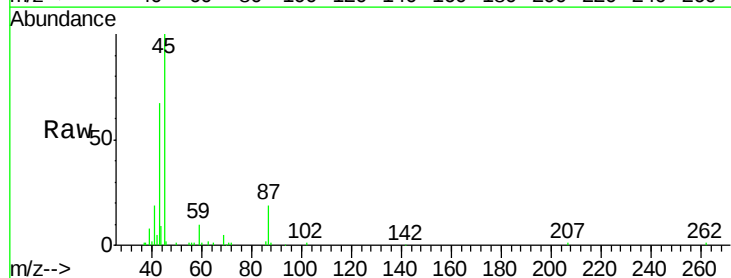
Ion Ratio Lower Upper

45 100

43 67.3 46.1 69.1

87 19.4 13.7 20.5

59 10.0 7.4 11.0

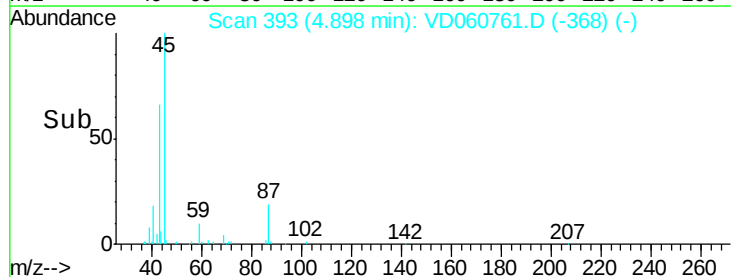
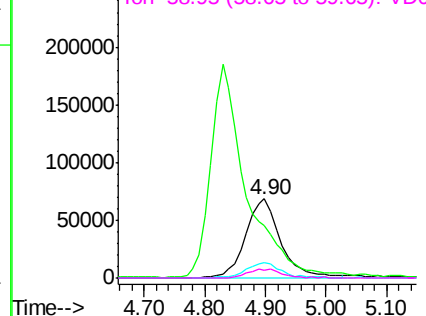


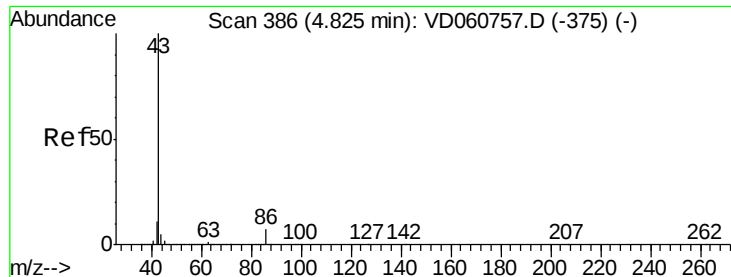
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 30.365 ug/l

RT: 4.83 min Scan# 386

Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

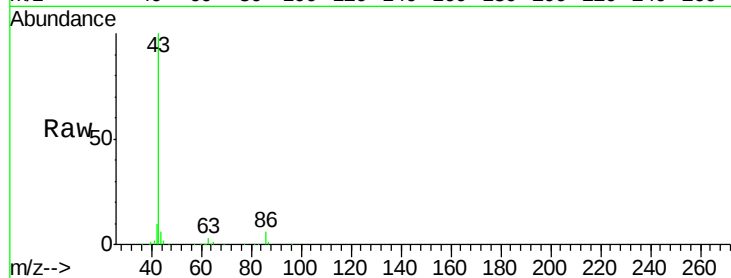
VSTDIC005

Tot Ion: 43 Resp: 752769

Ion Ratio Lower Upper

43 100

86 6.4 5.6 8.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

4.83

200000

150000

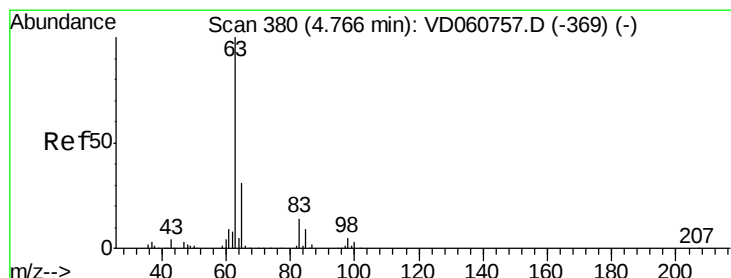
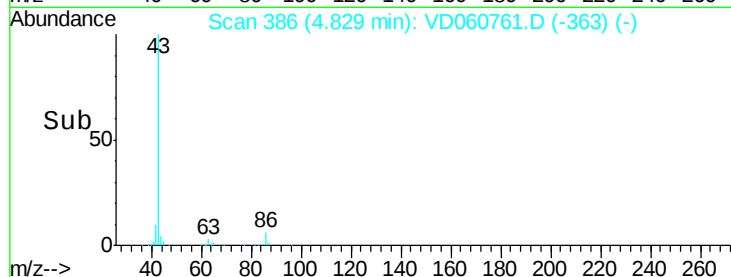
100000

50000

0

Time-->

4.70 4.80 4.90 5.00



#24

1,1-Dichloroethane

Concen: 5.694 ug/l

RT: 4.77 min Scan# 380

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

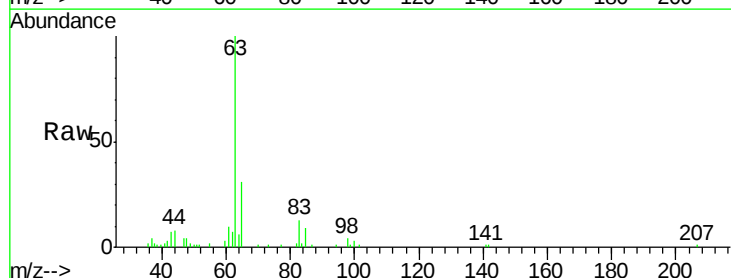
Tgt Ion: 63 Resp: 153471

Ion Ratio Lower Upper

63 100

98 4.8 2.9 8.7

100 2.8 2.0 5.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

4.77

50000

40000

30000

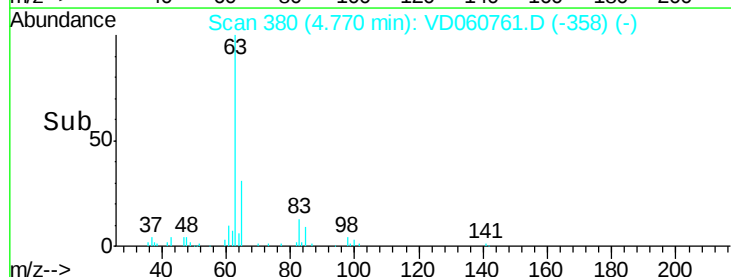
20000

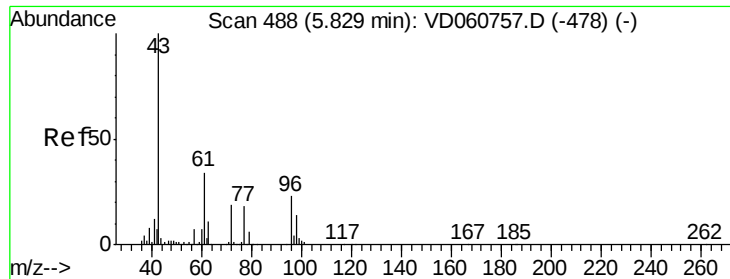
10000

0

Time-->

4.60 4.70 4.80 4.90





#25

2-Butanone

Concen: 35.934 ug/l

RT: 5.83 min Scan# 488

Delta R.T. 0.04 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

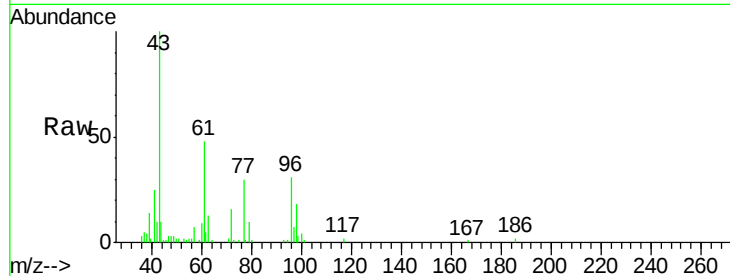
VSTDIC005

Tot Ion: 43 Resp: 123318

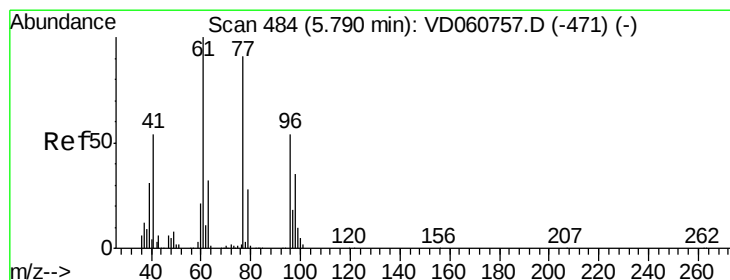
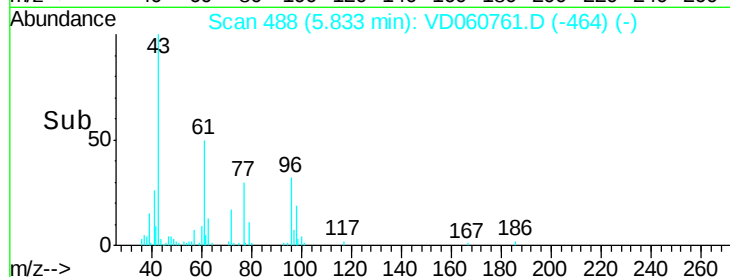
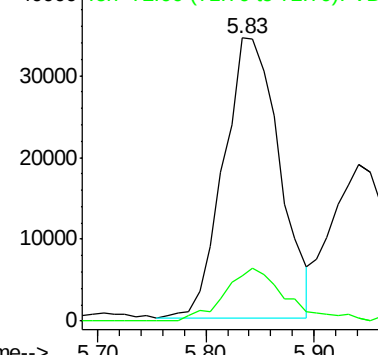
Ion Ratio Lower Upper

43 100

72 16.1 13.7 20.5



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 6.949 ug/l

RT: 5.78 min Scan# 483

Delta R.T. 0.02 min

Lab File: VD060761.D

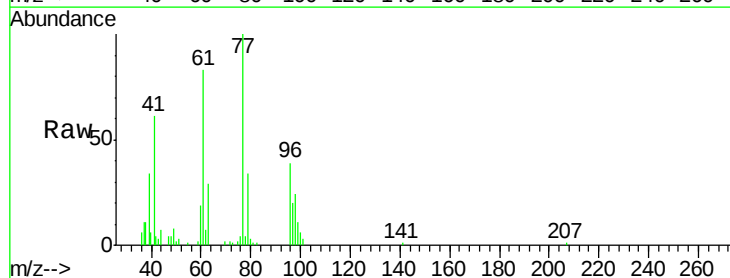
Acq: 18 Jan 2019 14:29

Tgt Ion: 77 Resp: 147846

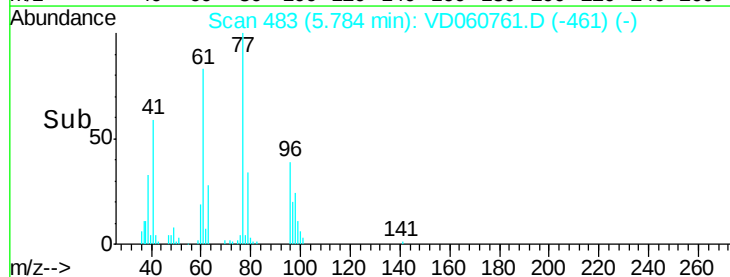
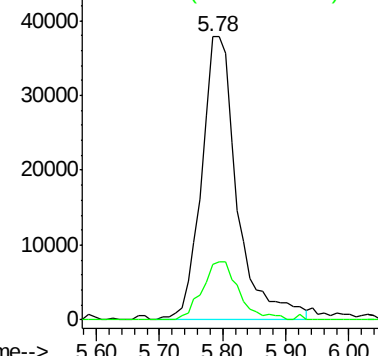
Ion Ratio Lower Upper

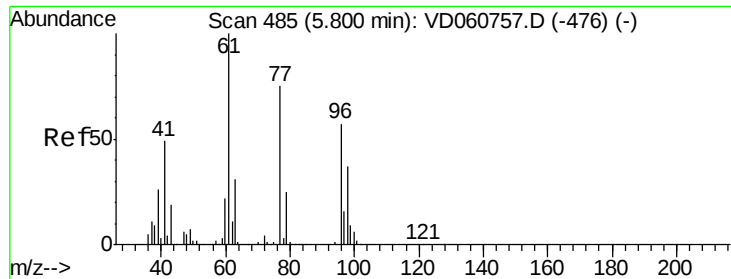
77 100

97 19.7 13.0 39.0



Abundance Ion 76.95 (76.65 to 77.65): VDC
Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 5.196 ug/l

RT: 5.80 min Scan# 485

Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

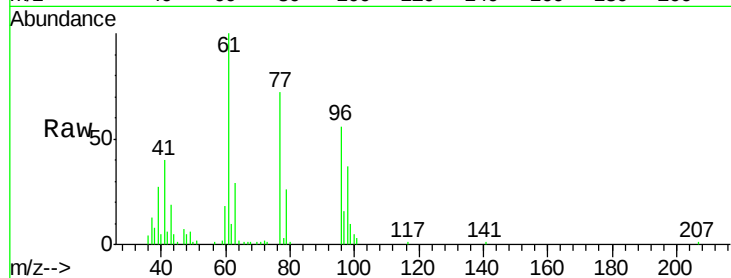
Tot Ion: 96 Resp: 88844

Ion Ratio Lower Upper

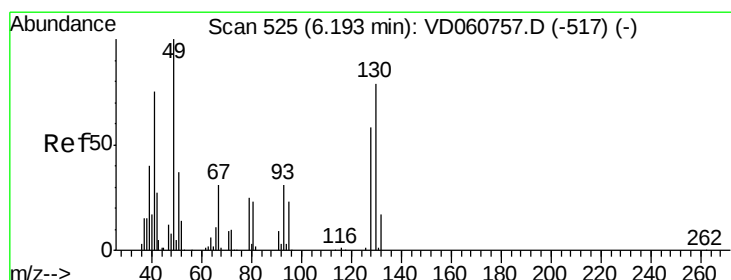
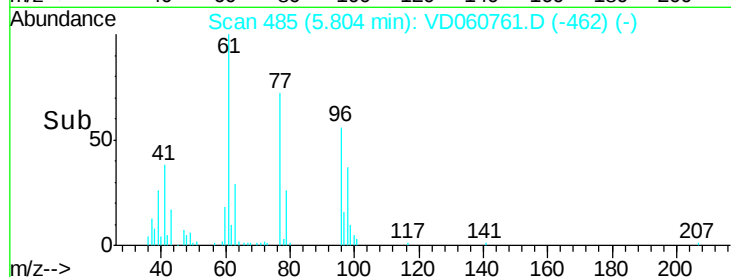
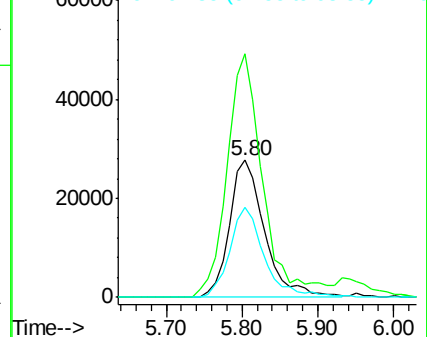
96 100

61 177.8 0.0 259.4

98 65.5 0.0 130.0



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane

Concen: 5.151 ug/l

RT: 6.21 min Scan# 526

Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

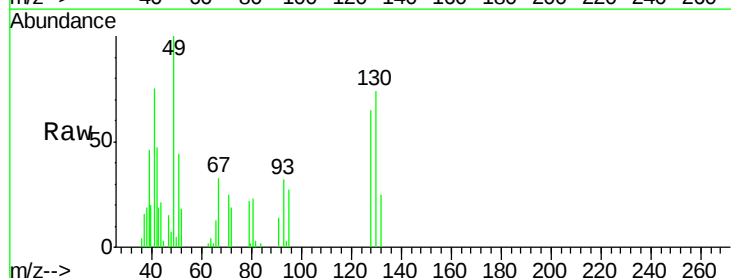
Tgt Ion: 49 Resp: 58645

Ion Ratio Lower Upper

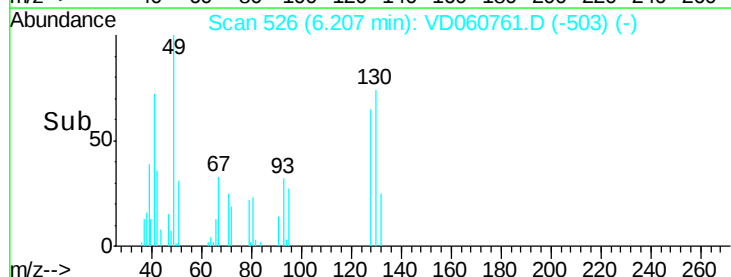
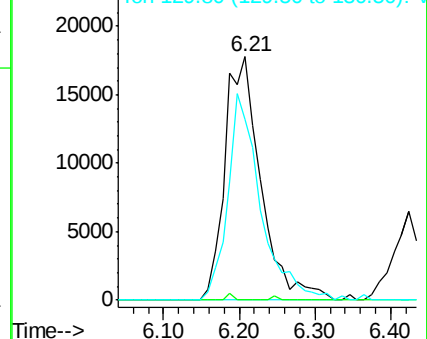
49 100

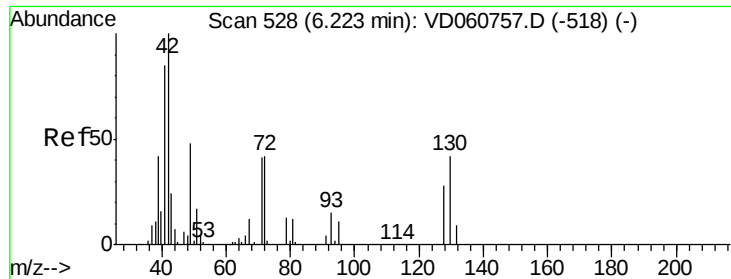
129 0.0 0.0 3.4

130 74.1 56.2 84.2



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC

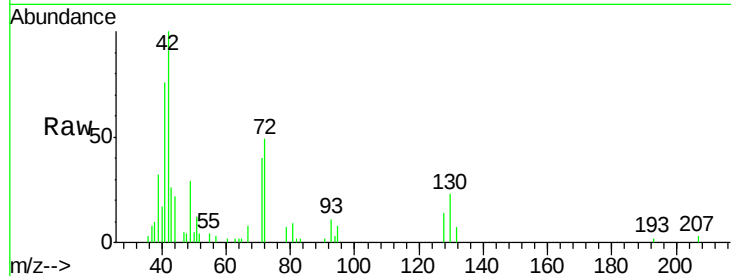




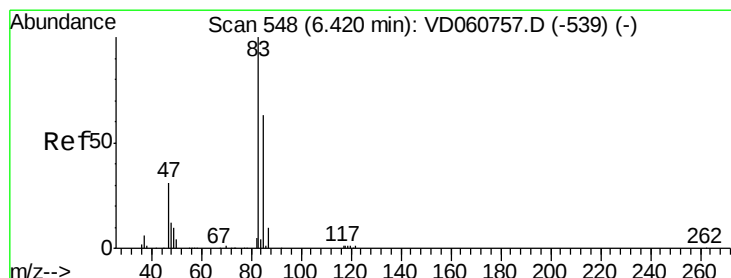
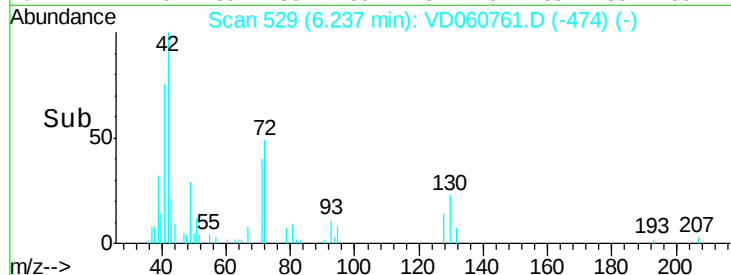
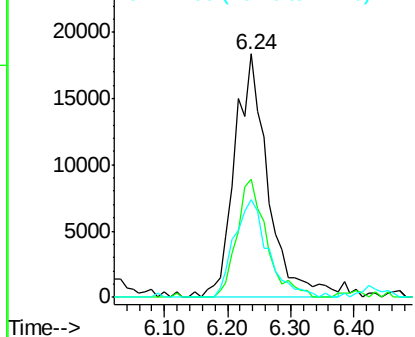
#29
Tetrahydrofuran
Concen: 34.600 ug/l
RT: 6.24 min Scan# 529
Delta R.T. 0.05 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion: 42 Resp: 67315
Ion Ratio Lower Upper
42 100
72 43.0 28.0 42.0#
71 40.9 27.0 40.6#

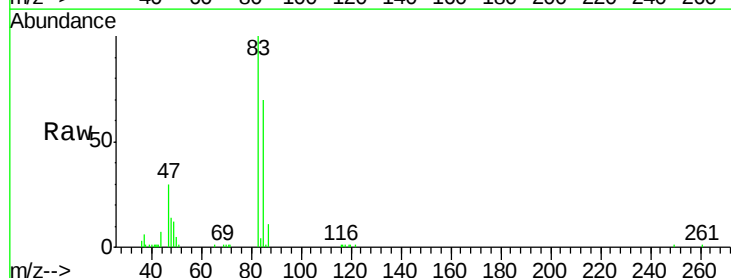


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

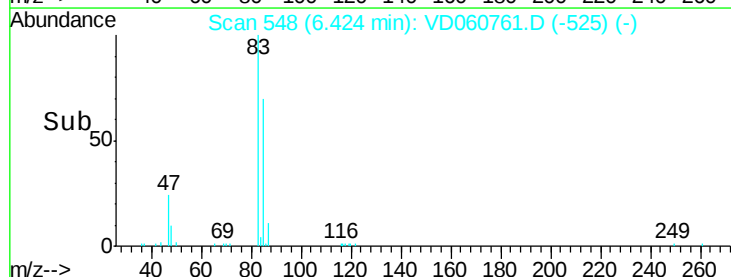
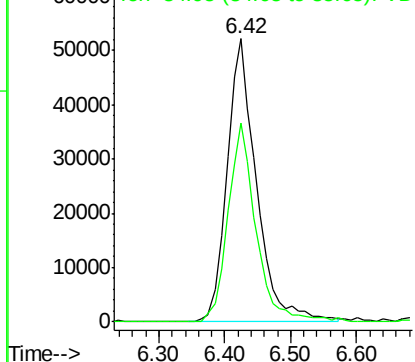


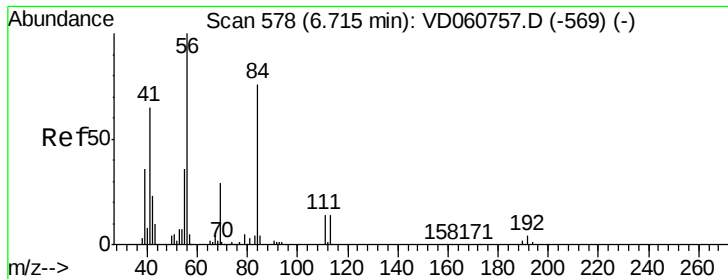
#30
Chloroform
Concen: 5.995 ug/l
RT: 6.42 min Scan# 548
Delta R.T. 0.03 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion: 83 Resp: 162598
Ion Ratio Lower Upper
83 100
85 70.4 53.0 79.6



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 5.674 ug/l

RT: 6.72 min Scan# 578

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

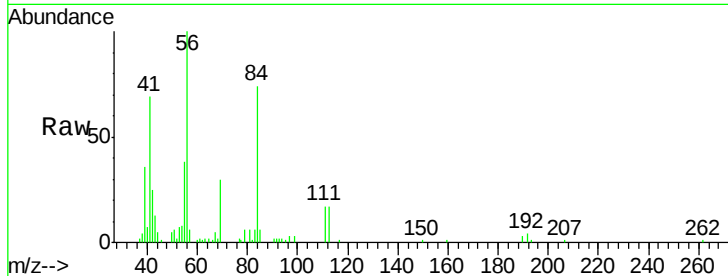
Tot Ion: 56 Resp: 147170

Ion Ratio Lower Upper

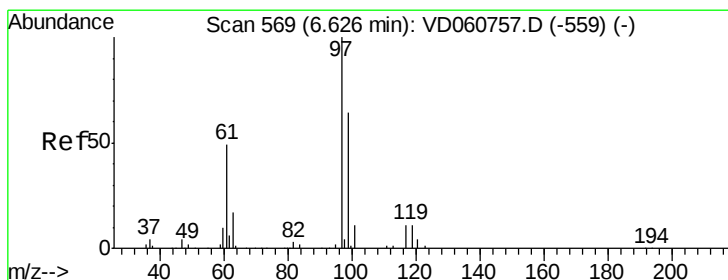
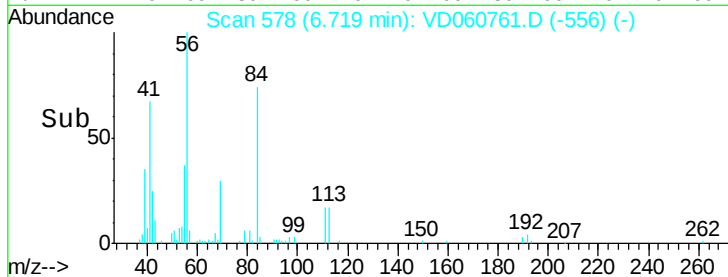
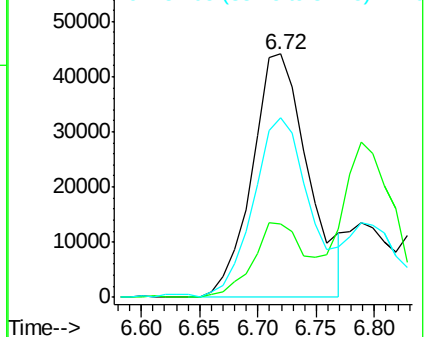
56 100

69 30.0 23.6 35.4

84 73.8 65.8 98.6



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 6.591 ug/l

RT: 6.64 min Scan# 570

Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

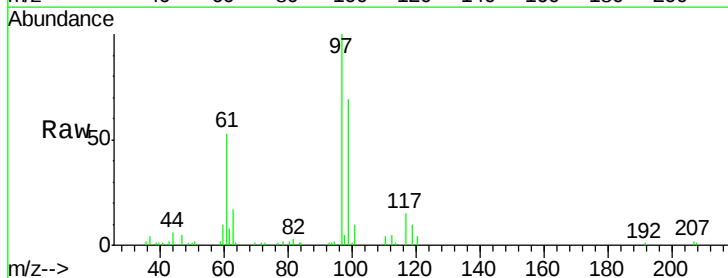
Tgt Ion: 97 Resp: 147892

Ion Ratio Lower Upper

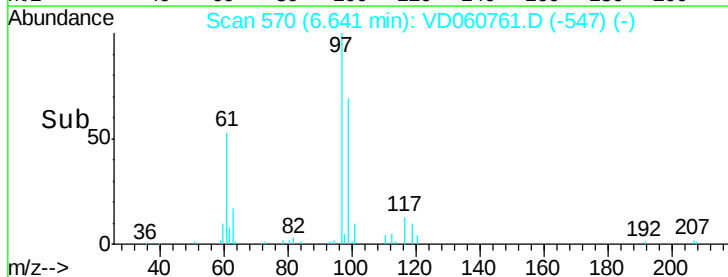
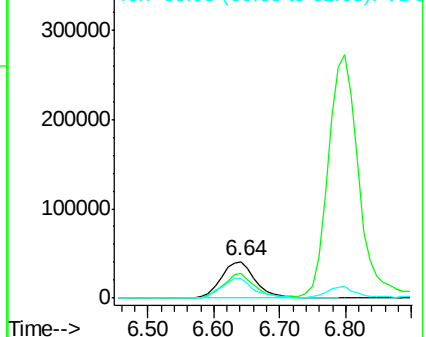
97 100

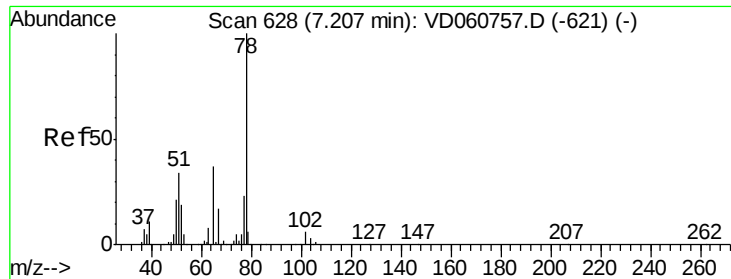
99 69.0 50.5 75.7

61 52.7 34.6 51.8#



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC

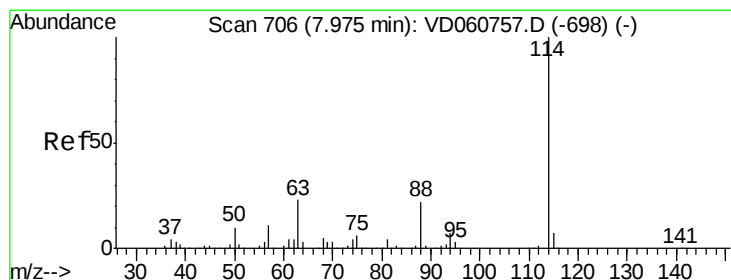
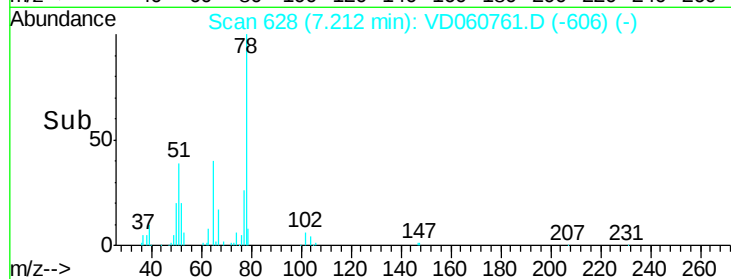
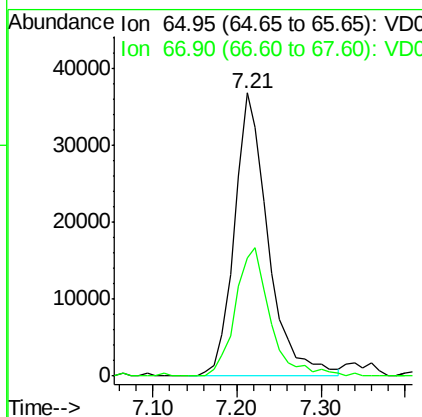
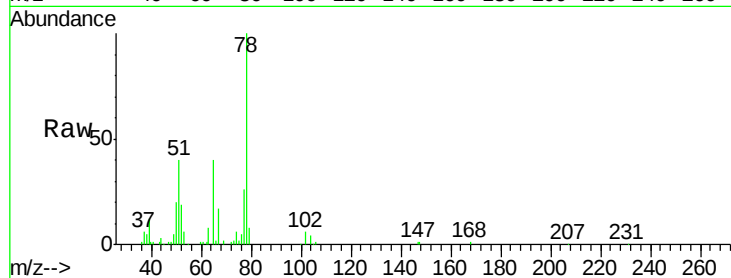




#33
 1,2-Dichloroethane-d4
 Concen: 6.591 ug/l
 RT: 7.21 min Scan# 628
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

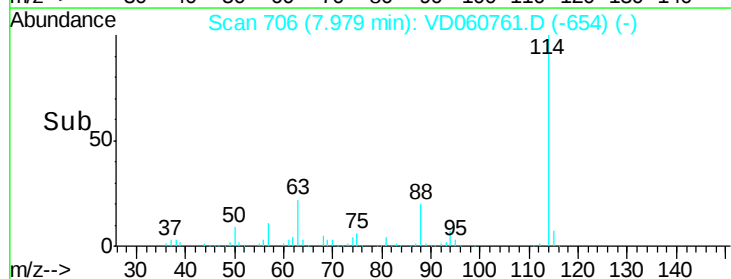
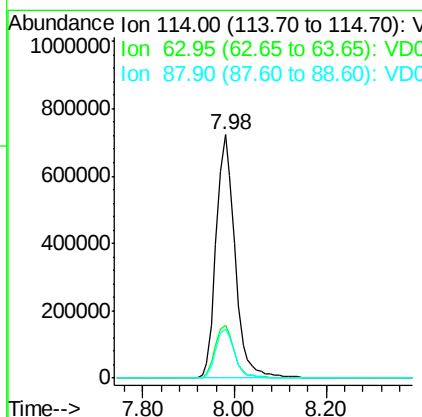
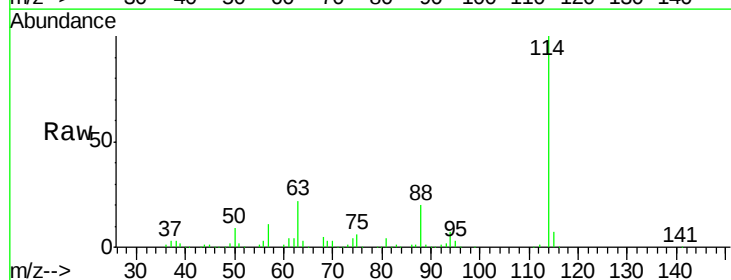
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

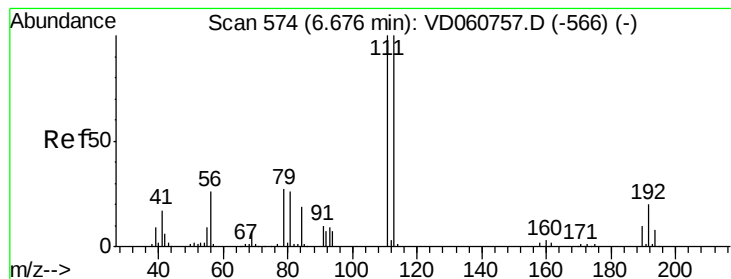
Tot Ion: 65 Resp: 102504
 Ion Ratio Lower Upper
 65 100
 67 41.7 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.98 min Scan# 706
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Tgt Ion: 114 Resp: 2047870
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 36.2
 88 20.0 0.0 37.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.68 min Scan# 574

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

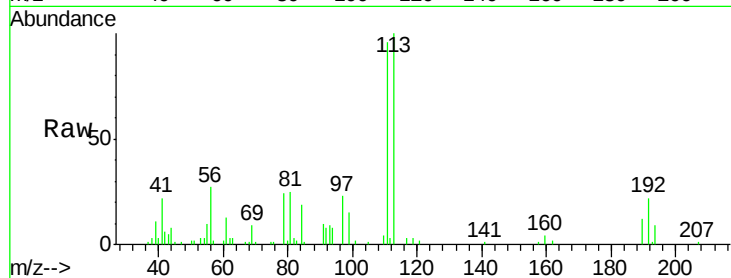
Tot Ion:113 Resp: 93293

Ion Ratio Lower Upper

113 100

111 95.6 80.0 120.0

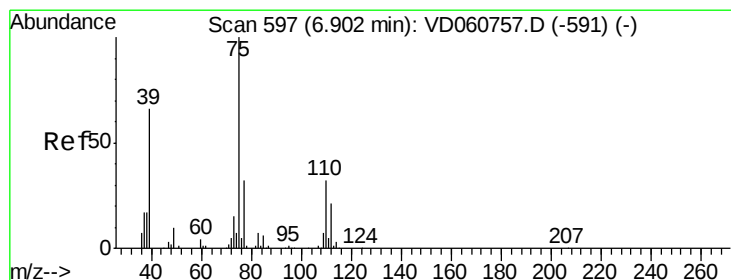
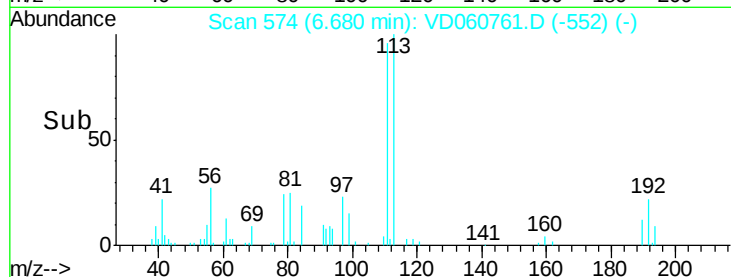
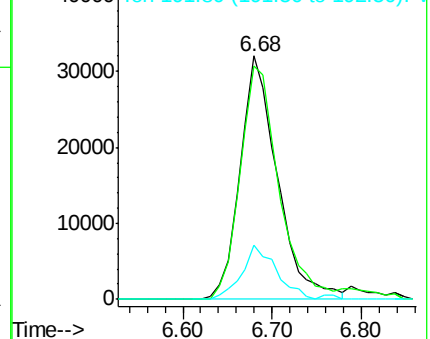
192 22.4 16.6 25.0



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 6.401 ug/l

RT: 6.92 min Scan# 598

Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

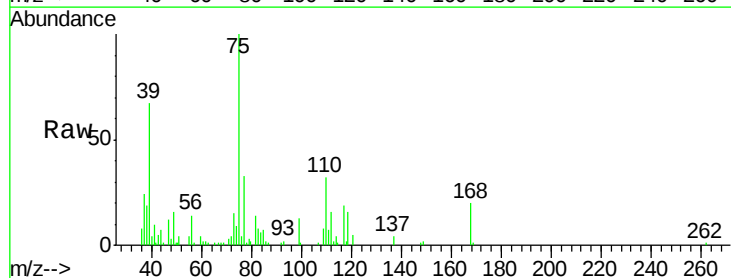
Tgt Ion: 75 Resp: 134983

Ion Ratio Lower Upper

75 100

110 32.2 18.9 56.7

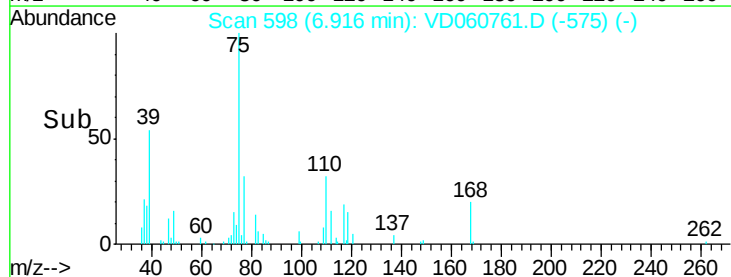
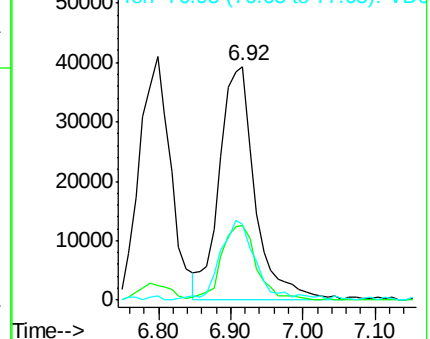
77 32.5 25.4 38.0

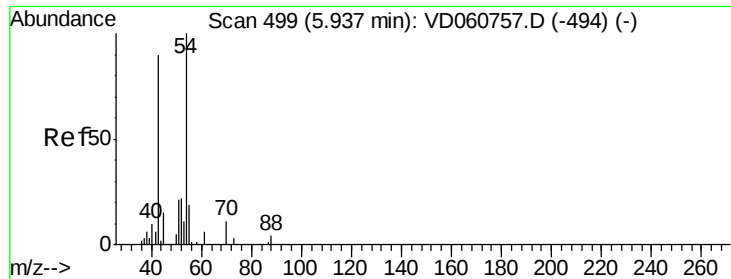


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

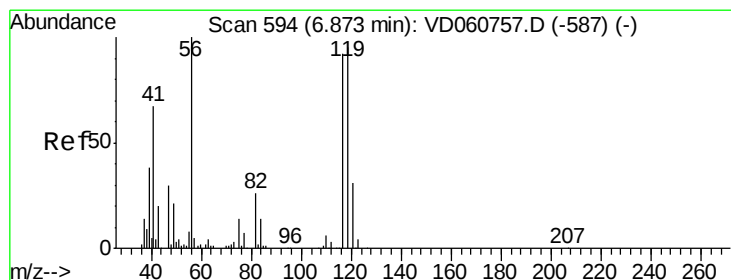
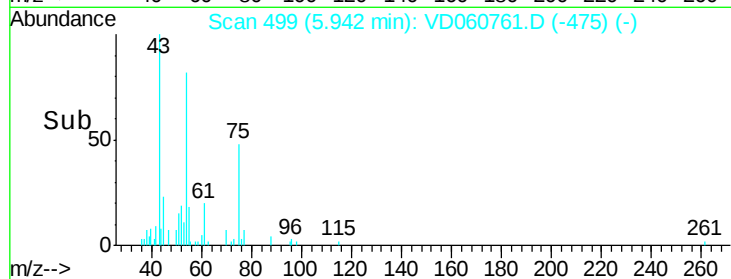
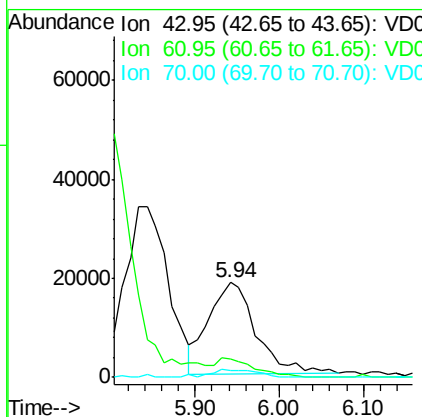
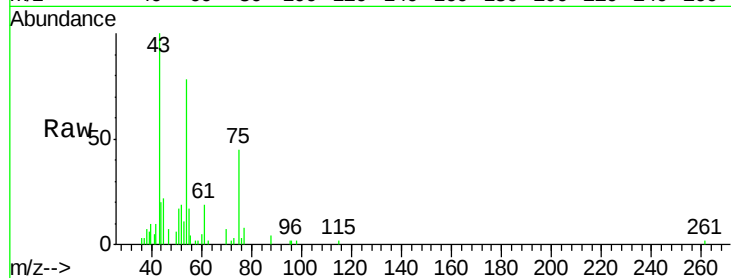




#37
Ethyl Acetate
Concen: 8.147 ug/l
RT: 5.94 min Scan# 499
Delta R.T. 0.04 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

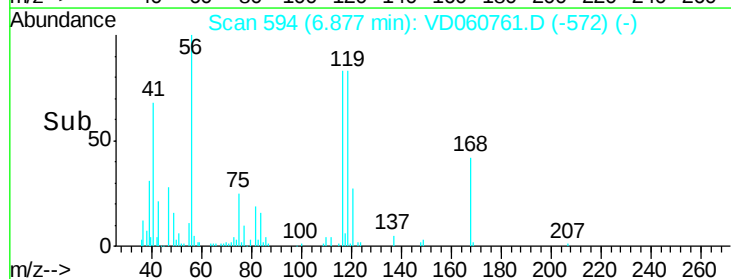
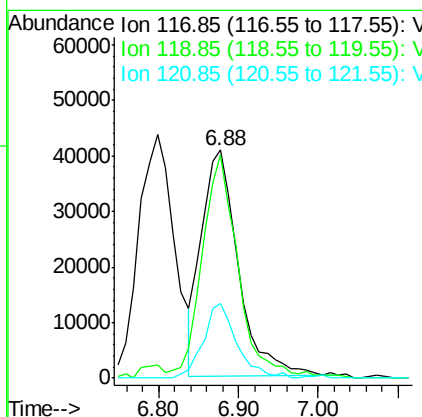
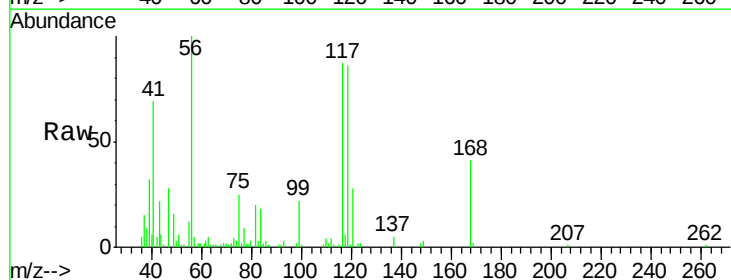
Instrument :
MSVOA_D
ClientSampleID :
VSTDIC005

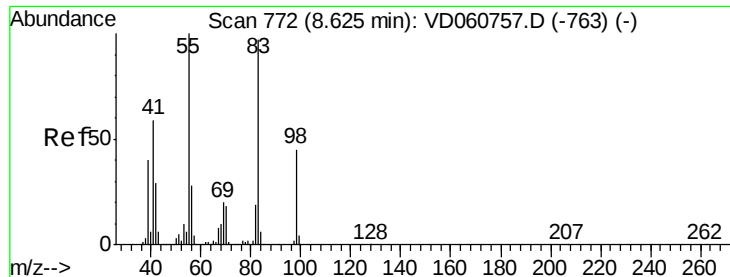
Tot Ion: 43 Resp: 71848
Ion Ratio Lower Upper
43 100
61 19.0 11.8 17.6#
70 6.6 5.8 8.6



#38
Carbon Tetrachloride
Concen: 7.049 ug/l
RT: 6.88 min Scan# 594
Delta R.T. 0.02 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion: 117 Resp: 131140
Ion Ratio Lower Upper
117 100
119 98.2 77.0 115.4
121 32.5 24.7 37.1

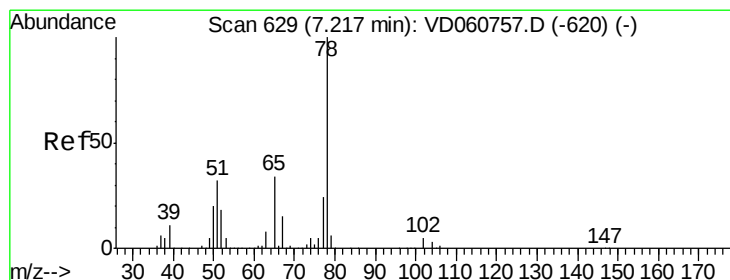
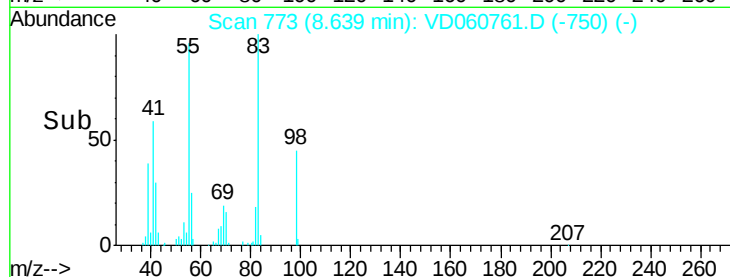
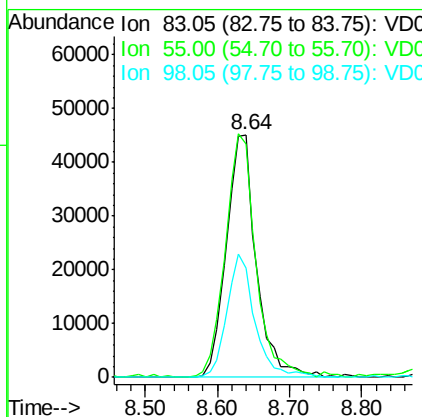
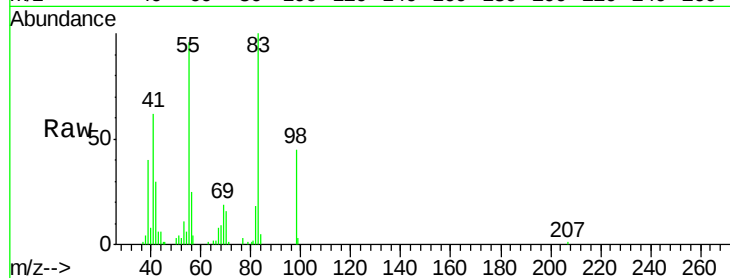




#39
Methvlcvclohexane
Concen: 5.428 ug/l
RT: 8.64 min Scan# 773
Delta R.T. 0.03 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

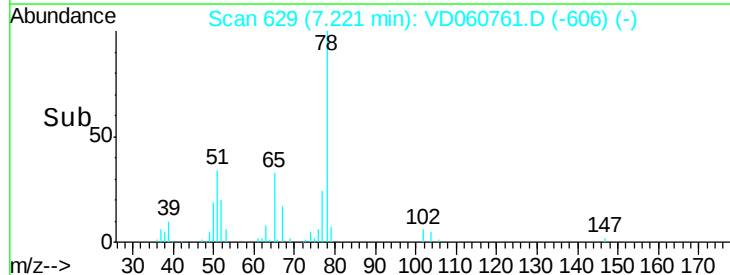
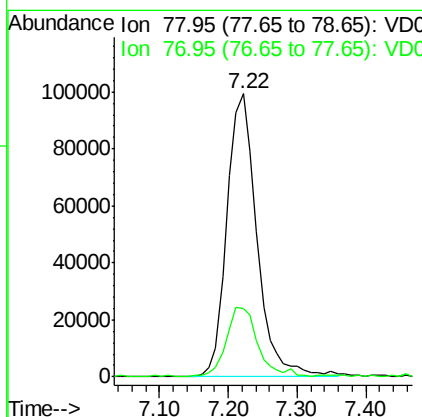
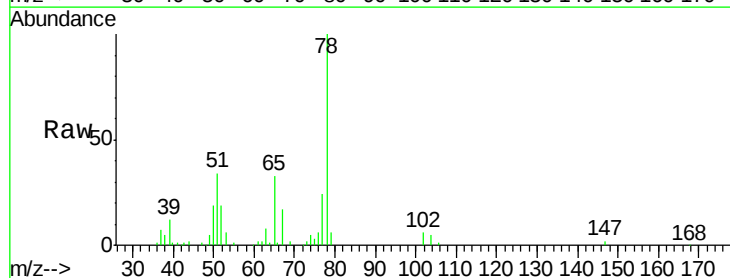
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

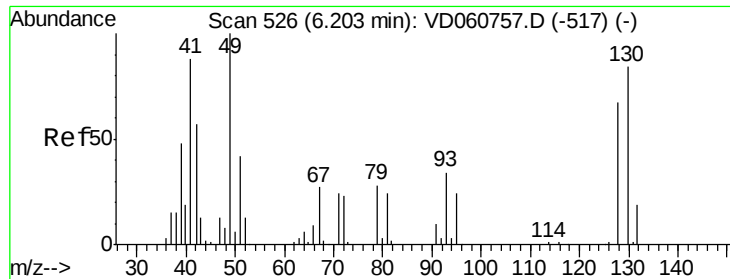
Tot Ion: 83 Resp: 130538
Ion Ratio Lower Upper
83 100
55 95.9 68.6 102.8
98 44.8 38.1 57.1



#40
Benzene
Concen: 5.523 ug/l
RT: 7.22 min Scan# 629
Delta R.T. 0.03 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion: 78 Resp: 300854
Ion Ratio Lower Upper
78 100
77 24.4 19.2 28.8





#41

Methacrylonitrile

Concen: 16.665 ug/l

RT: 6.22 min Scan# 527

Delta R.T. 0.04 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 41 Resp: 81295

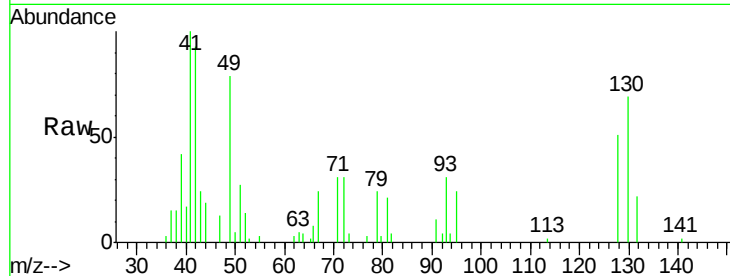
Ion Ratio Lower Upper

41 100

39 41.7 37.6 56.4

67 23.9 33.0 49.6#

52 13.6 15.5 23.3#

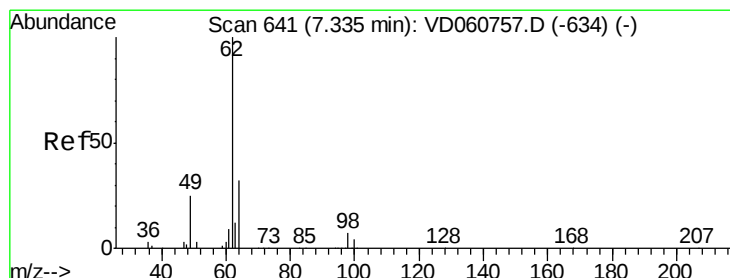
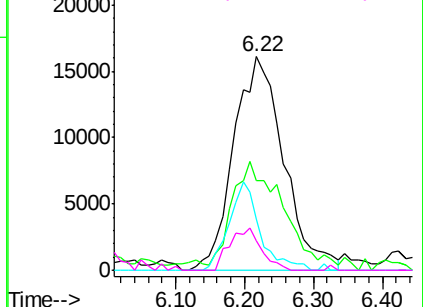
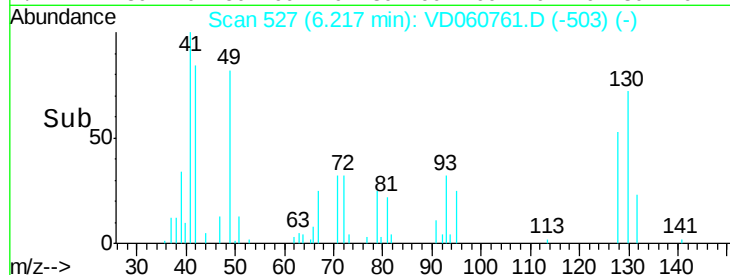


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 8.993 ug/l

RT: 7.34 min Scan# 641

Delta R.T. 0.03 min

Lab File: VD060761.D

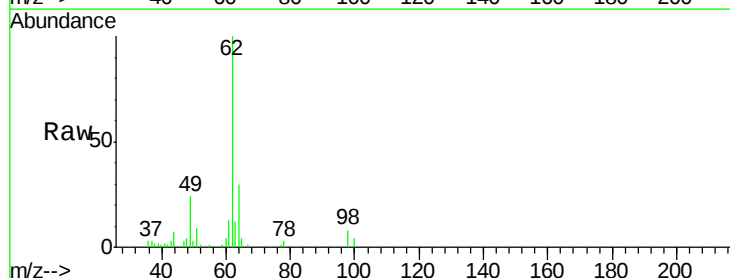
Acq: 18 Jan 2019 14:29

Tgt Ion: 62 Resp: 121557

Ion Ratio Lower Upper

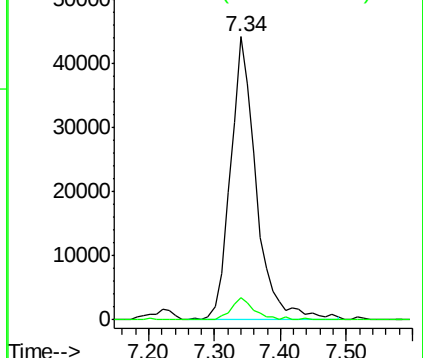
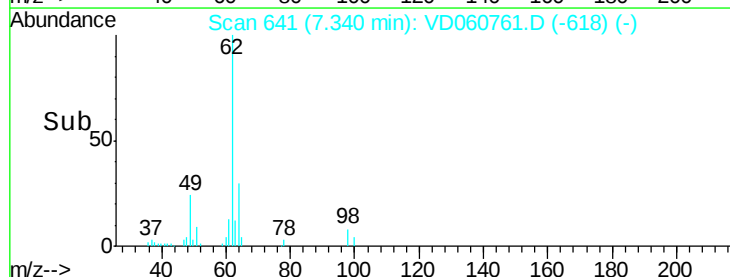
62 100

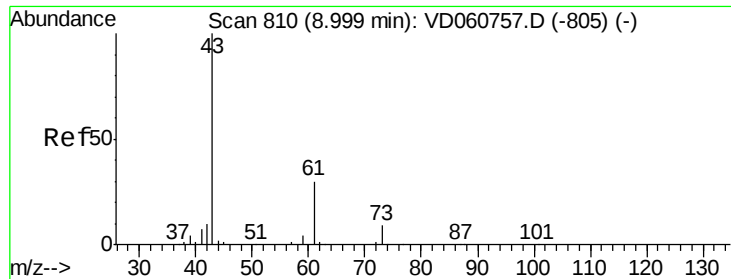
98 7.9 0.0 20.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 7.430 ug/l

RT: 9.00 min Scan# 810

Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

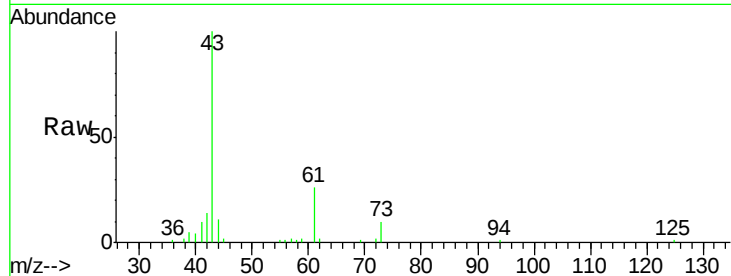
Tot Ion: 43 Resp: 84091

Ion Ratio Lower Upper

43 100

61 26.3 21.8 32.8

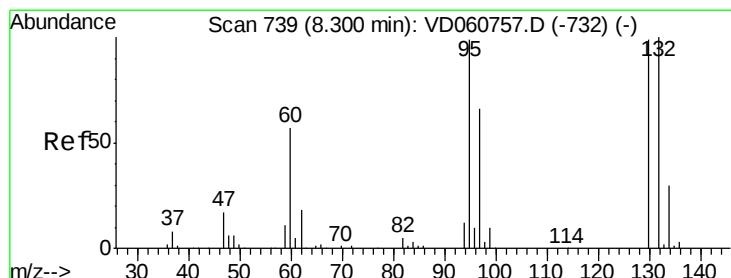
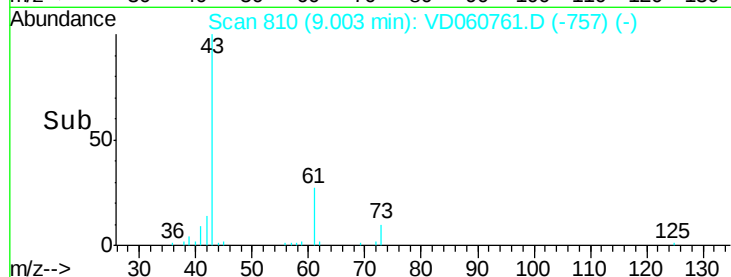
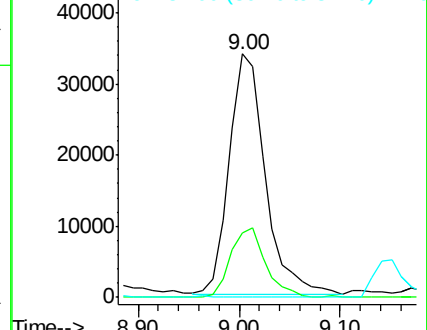
87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 5.235 ug/l

RT: 8.30 min Scan# 739

Delta R.T. 0.02 min

Lab File: VD060761.D

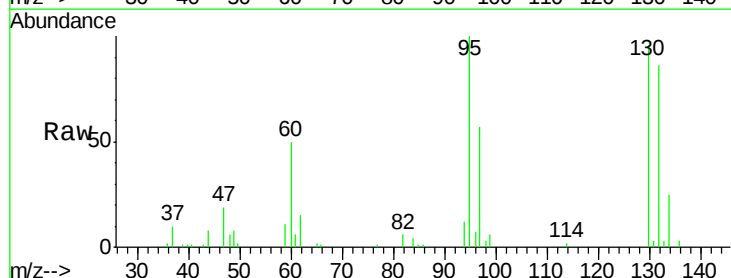
Acq: 18 Jan 2019 14:29

Tgt Ion:130 Resp: 84394

Ion Ratio Lower Upper

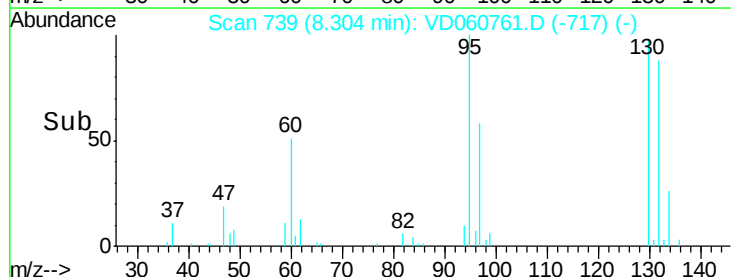
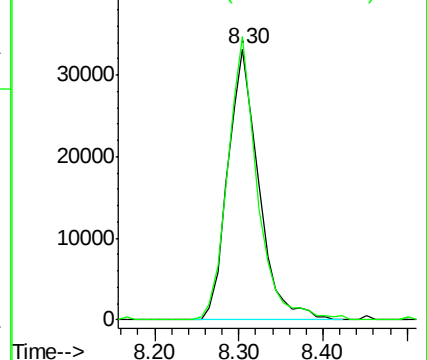
130 100

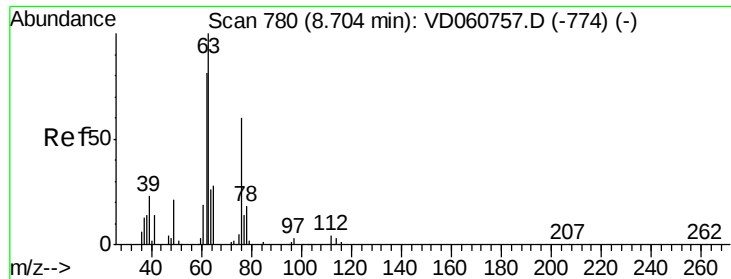
95 104.4 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

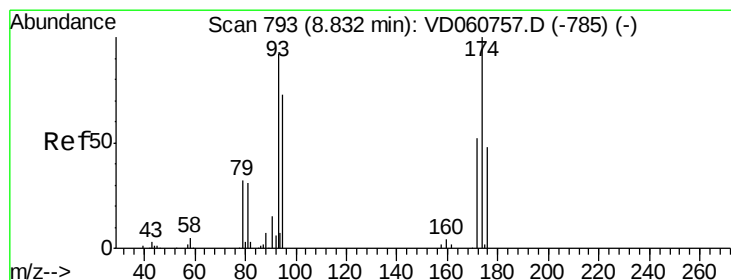
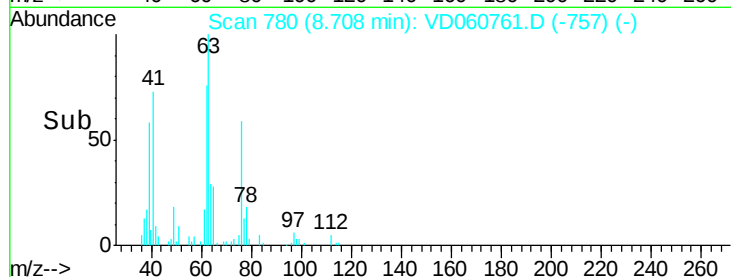
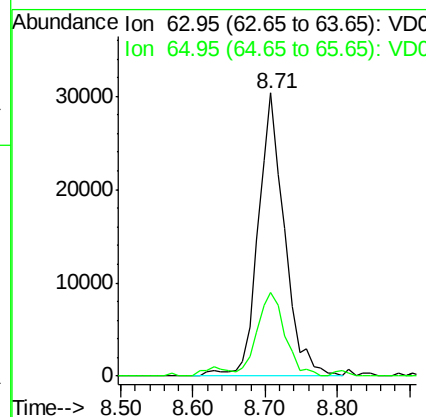
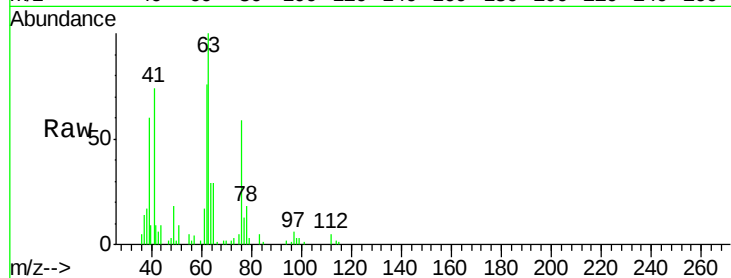




#45
 1,2-Dichloropropane
 Concen: 5.779 ug/l
 RT: 8.71 min Scan# 780
 Delta R.T. 0.03 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

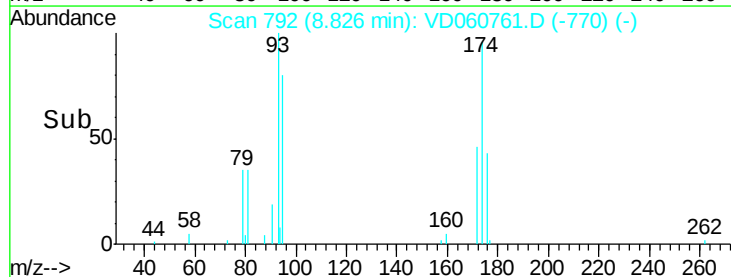
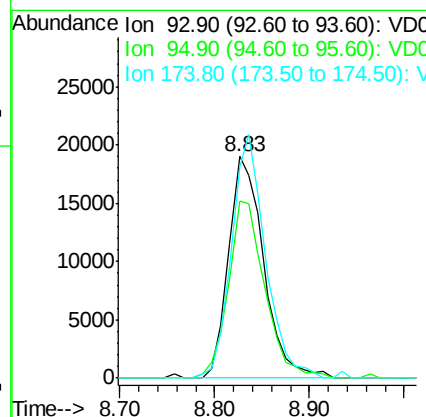
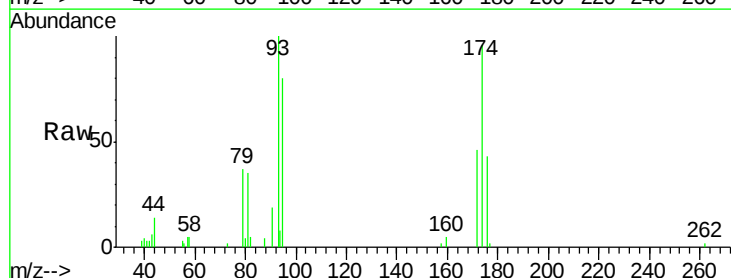
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

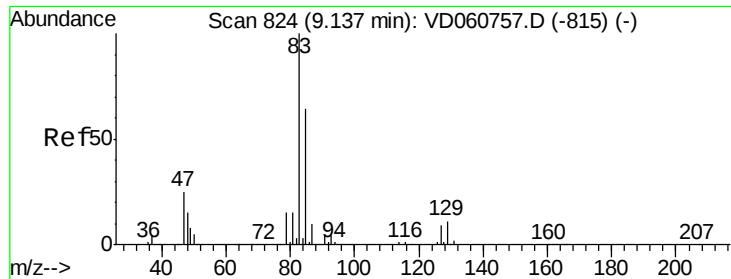
Tot Ion: 63 Resp: 77192
 Ion Ratio Lower Upper
 63 100
 65 29.5 25.0 37.6



#46
 Dibromomethane
 Concen: 6.390 ug/l
 RT: 8.83 min Scan# 792
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Tgt Ion: 93 Resp: 48718
 Ion Ratio Lower Upper
 93 100
 95 79.7 68.8 103.2
 174 95.8 93.0 139.4





#47

Bromodichloromethane

Concen: 6.577 ug/l

RT: 9.14 min Scan# 824

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

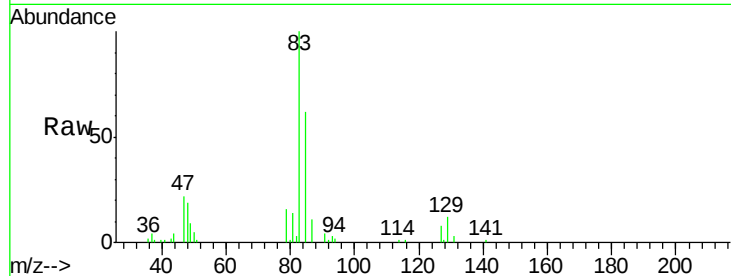
Tot Ion: 83 Resp: 118768

Ion Ratio Lower Upper

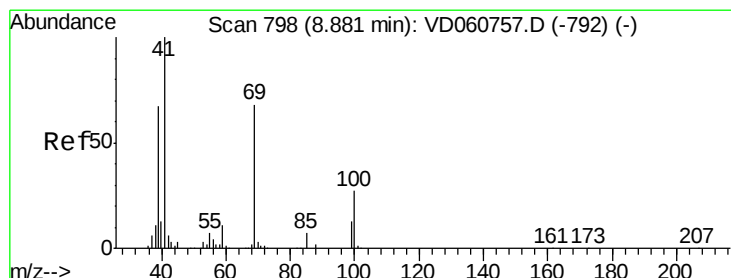
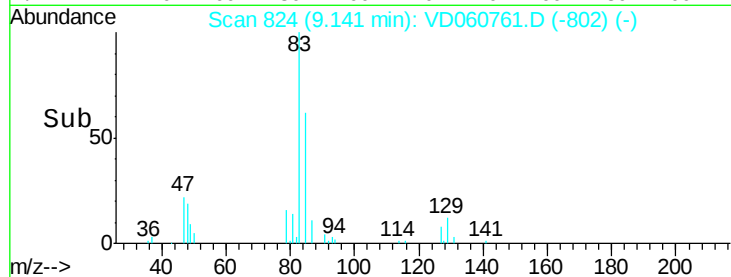
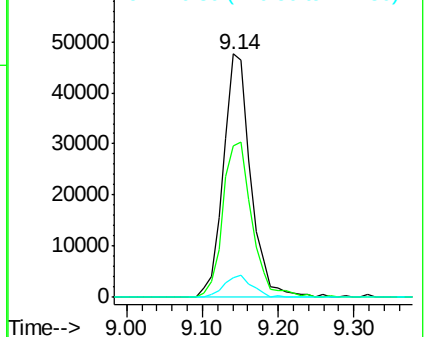
83 100

85 62.1 51.1 76.7

127 7.9 7.0 10.6



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 8.502 ug/l

RT: 8.89 min Scan# 798

Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

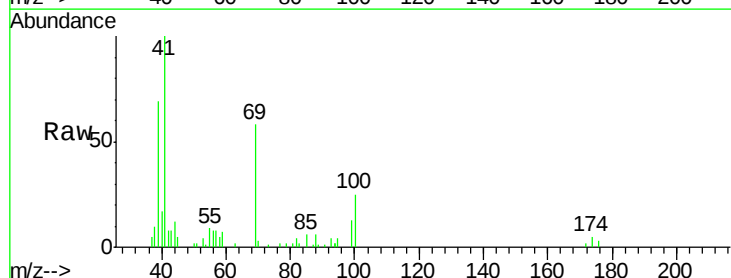
Tgt Ion: 41 Resp: 58444

Ion Ratio Lower Upper

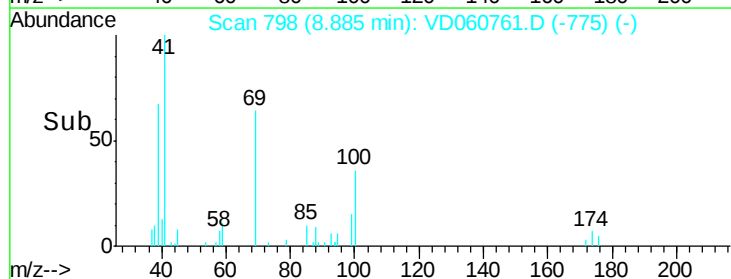
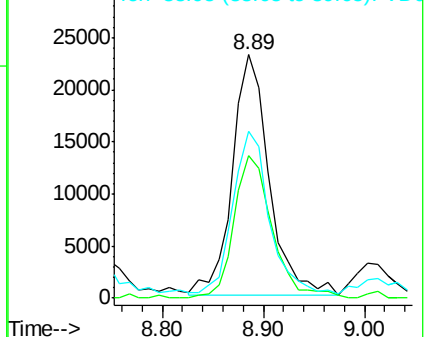
41 100

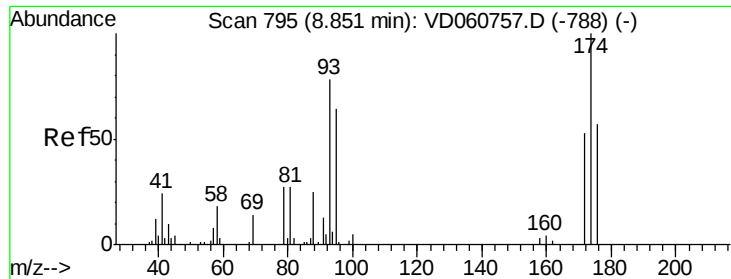
69 58.4 51.2 76.8

39 68.6 44.6 67.0#



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 155.492 ug/l

RT: 8.87 min Scan# 796

Delta R.T. 0.05 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

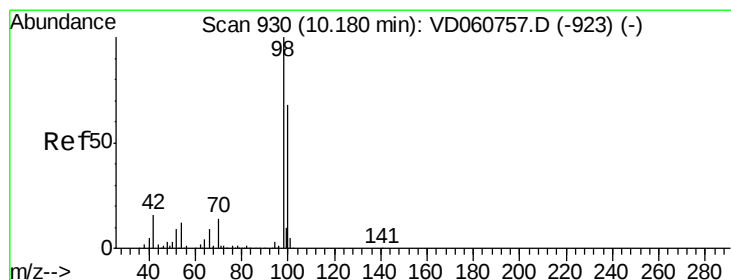
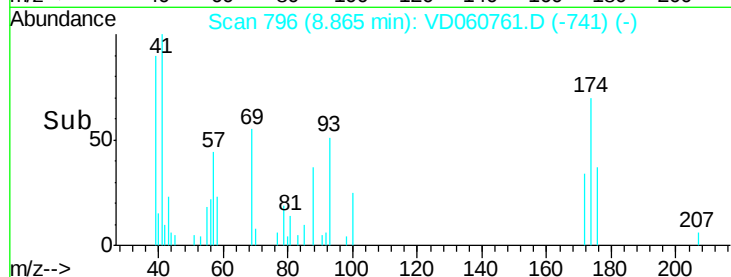
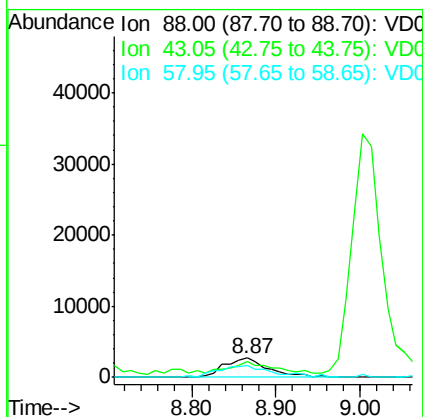
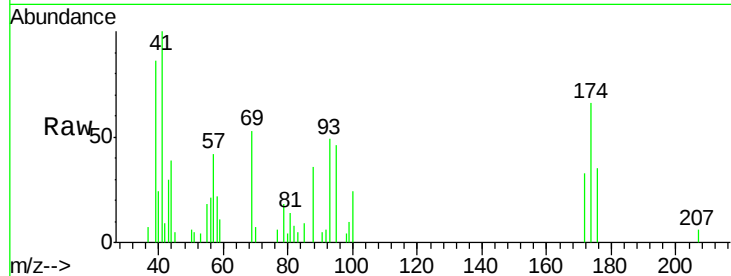
Tot Ion: 88 Resp: 9938

Ion Ratio Lower Upper

88 100

43 82.9 31.5 47.3#

58 62.6 50.6 76.0



#50

Toluene-d8

Concen: 155.492 ug/l

RT: 10.18 min Scan# 930

Delta R.T. 0.02 min

Lab File: VD060761.D

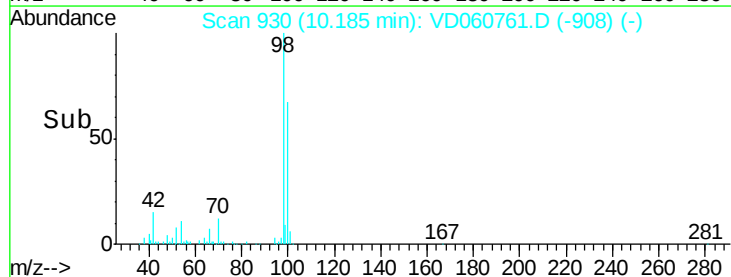
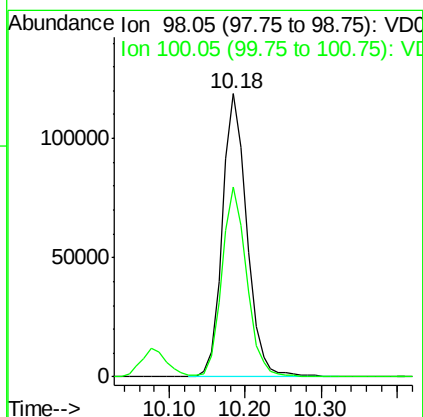
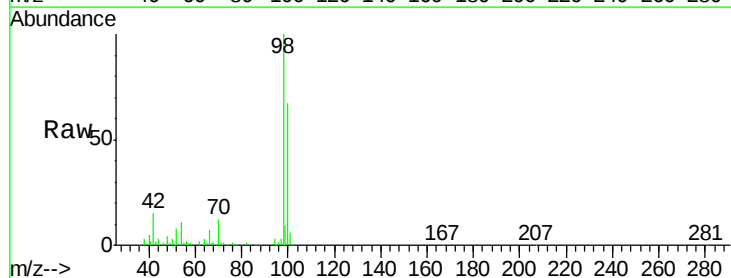
Acq: 18 Jan 2019 14:29

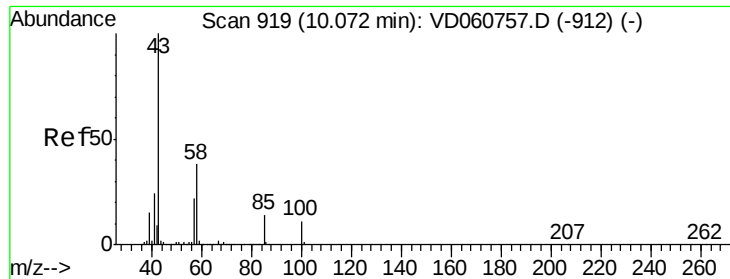
Tgt Ion: 98 Resp: 267386

Ion Ratio Lower Upper

98 100

100 67.3 55.8 83.8

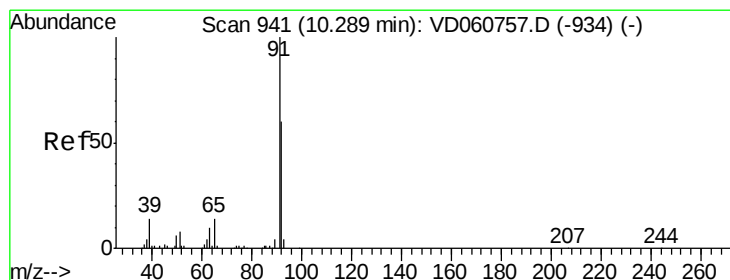
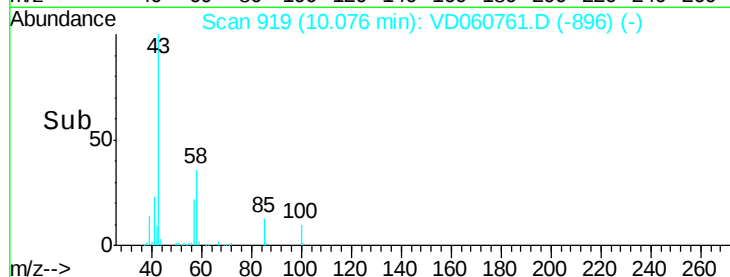
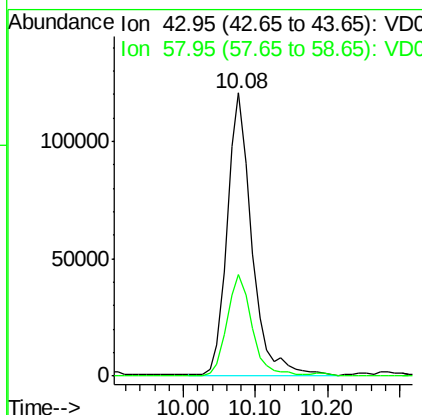
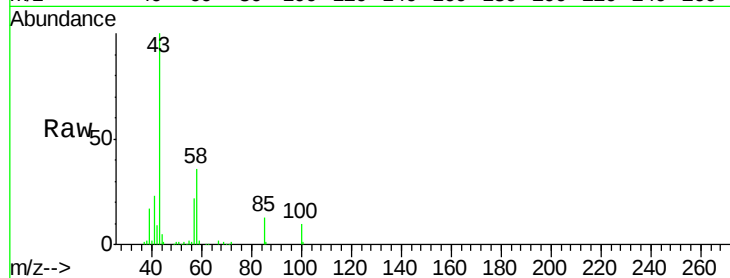




#51
 4-Methyl-2-Pentanone
 Concen: 40.809 ug/l
 RT: 10.08 min Scan# 919
 Delta R.T. 0.03 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

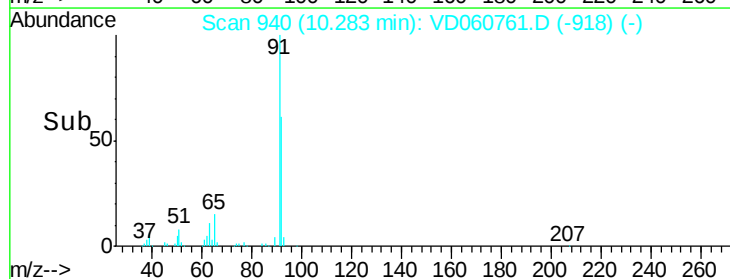
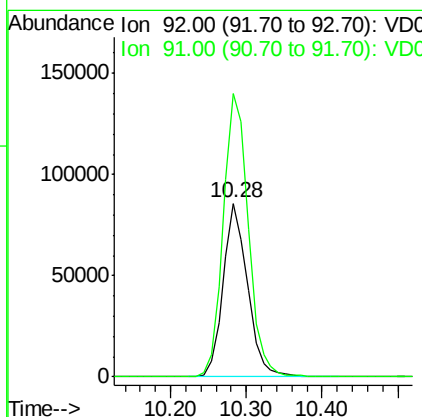
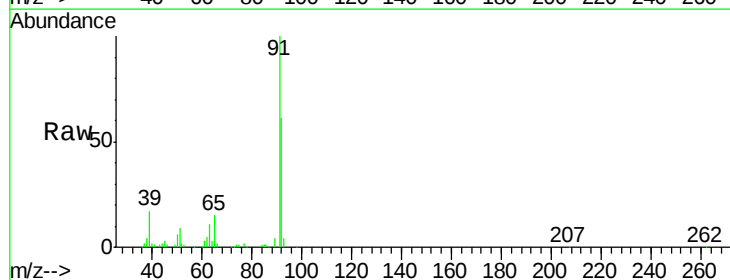
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

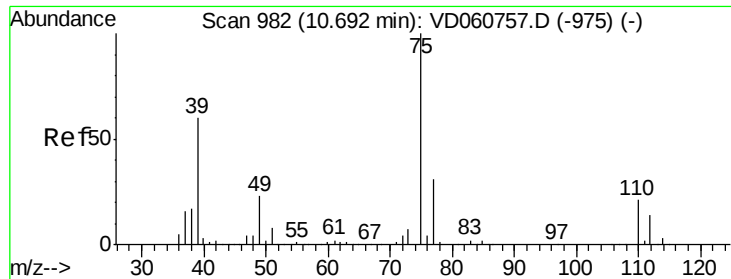
Tot Ion: 43 Resp: 282968
 Ion Ratio Lower Upper
 43 100
 58 36.1 26.3 39.5



#52
 Toluene
 Concen: 5.629 ug/l
 RT: 10.28 min Scan# 940
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Tgt Ion: 92 Resp: 192202
 Ion Ratio Lower Upper
 92 100
 91 162.9 132.6 199.0





#53

t-1,3-Dichloropropene

Concen: 7.851 ug/l

RT: 10.70 min Scan# 982

Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

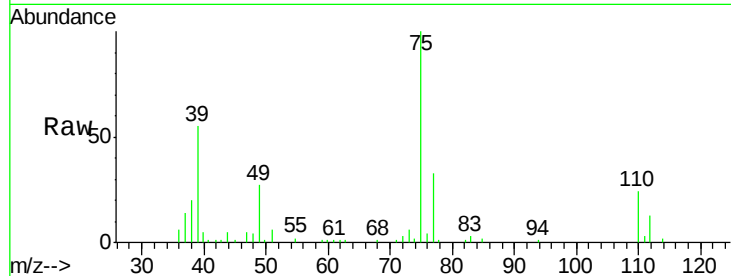
VSTDIC005

Tot Ion: 75 Resp: 118282

Ion Ratio Lower Upper

75 100

77 32.8 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.70

60000

50000

40000

30000

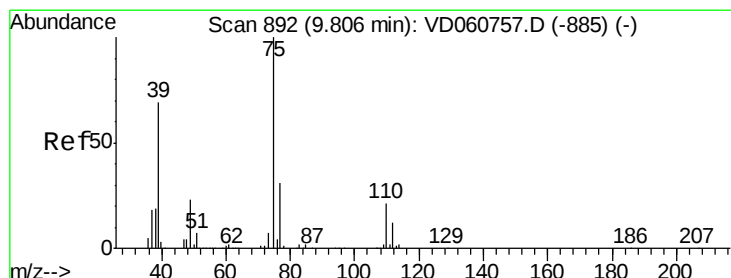
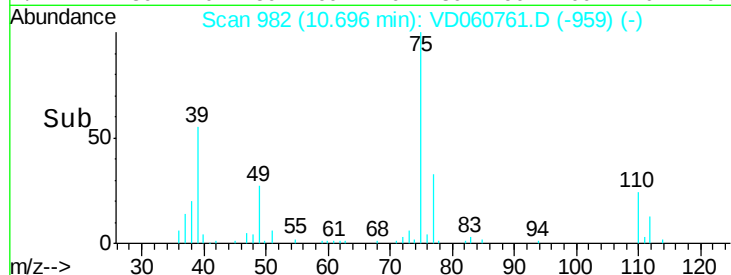
20000

10000

0

Time-->

10.60 10.70 10.80



#54

cis-1,3-Dichloropropene

Concen: 6.799 ug/l

RT: 9.81 min Scan# 892

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

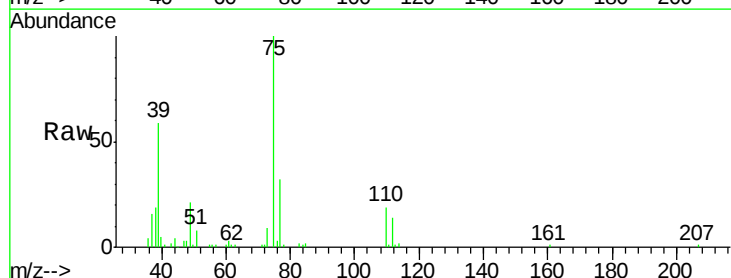
Tgt Ion: 75 Resp: 134074

Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.2

39 59.5 47.0 70.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

9.81

80000

60000

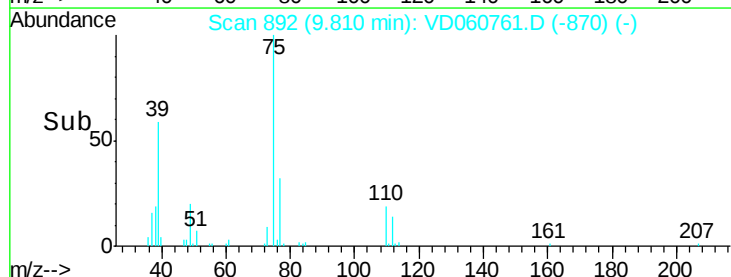
40000

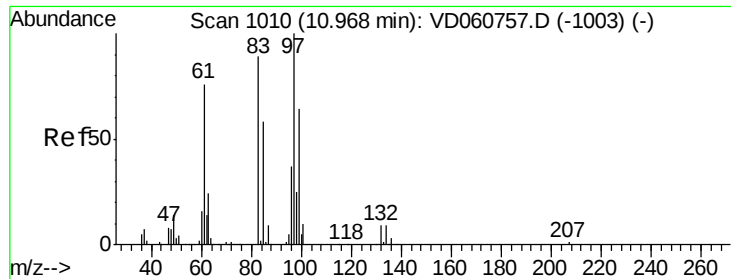
20000

0

Time-->

9.70 9.80 9.90





#55

1,1,2-Trichloroethane

Concen: 6.473 ug/l

RT: 10.97 min Scan# 1010

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

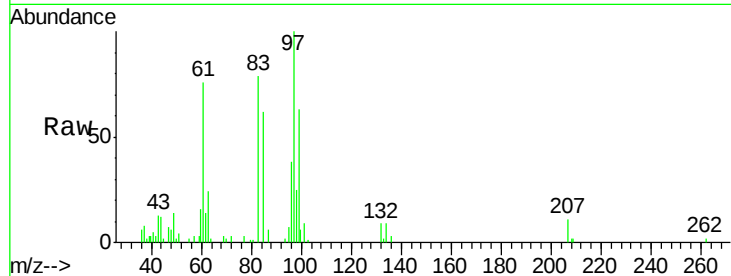
MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 97 Resp: 59467

Ion	Ratio	Lower	Upper
97	100		
83	78.7	70.0	105.0
85	61.7	46.6	70.0
99	62.8	49.6	74.4

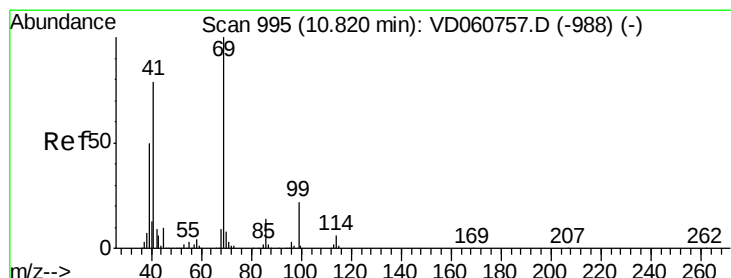
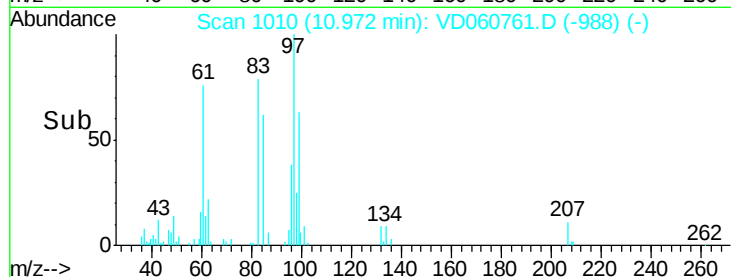


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 8.832 ug/l

RT: 10.82 min Scan# 995

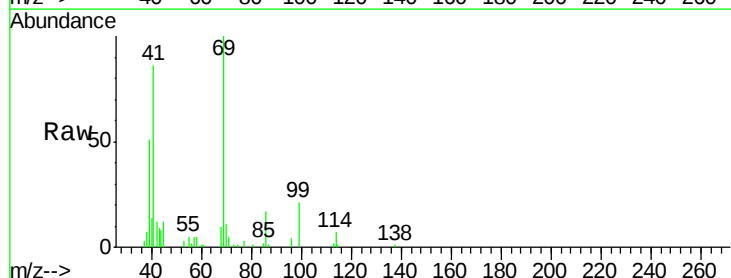
Delta R.T. 0.03 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Tgt Ion: 69 Resp: 75373

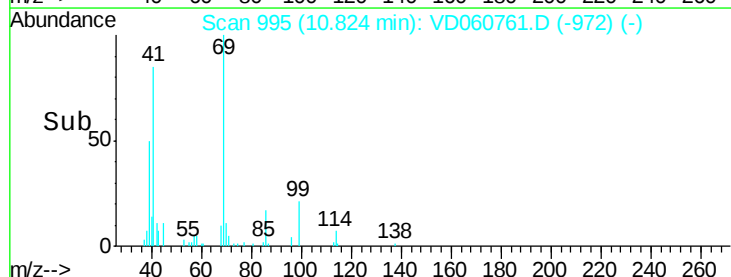
Ion	Ratio	Lower	Upper
69	100		
41	85.7	68.3	102.5
39	51.5	37.2	55.8

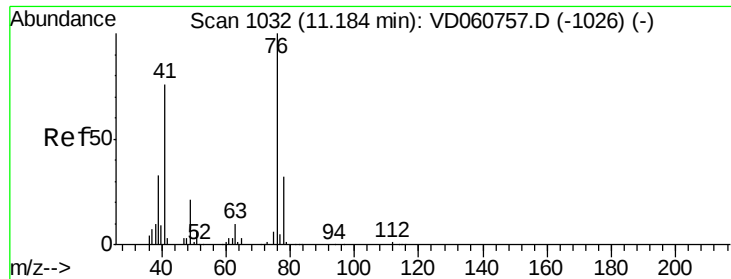


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

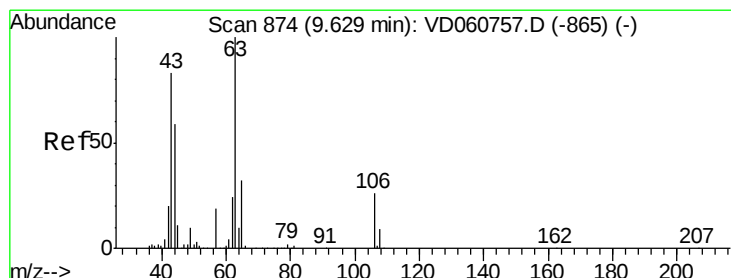
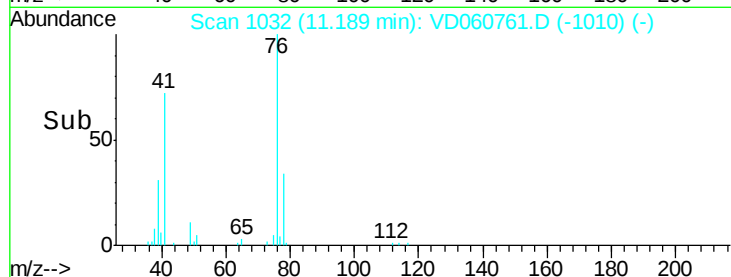
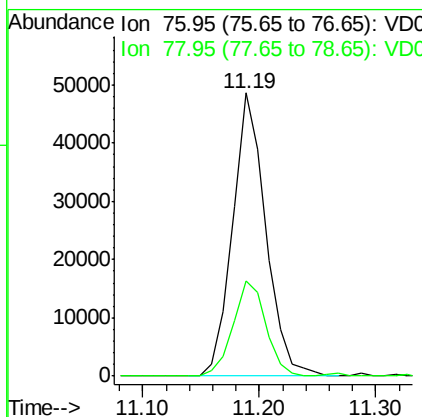
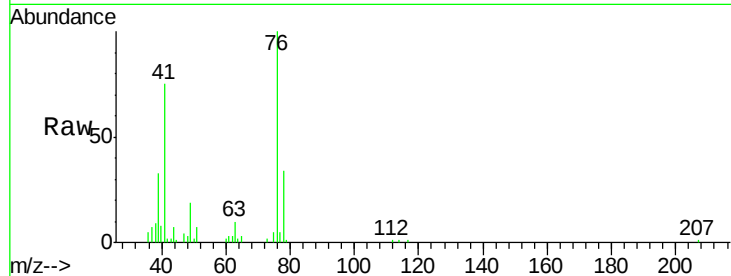




#57
 1,3-Dichloropropane
 Concen: 6.545 ug/l
 RT: 11.19 min Scan# 1032
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

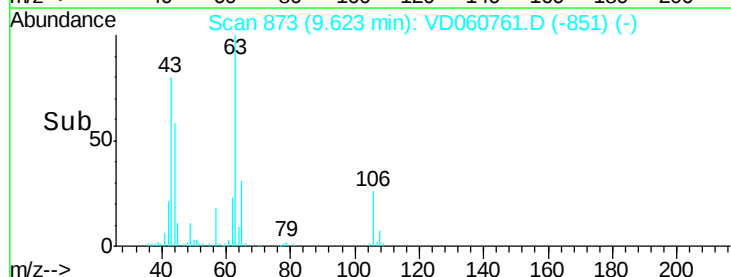
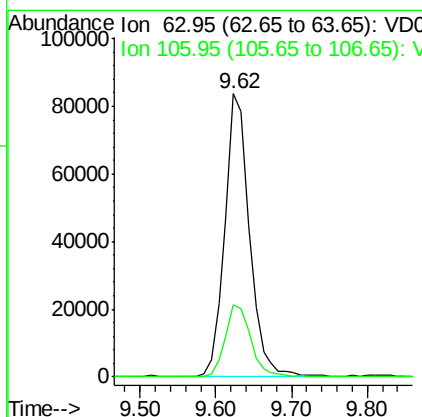
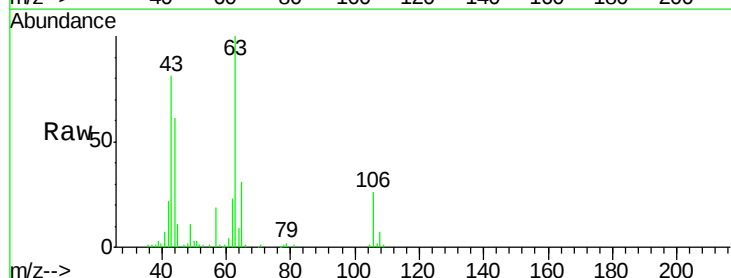
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

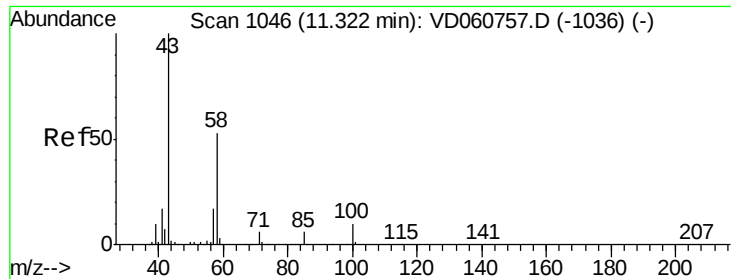
Tot Ion: 76 Resp: 95317
 Ion Ratio Lower Upper
 76 100
 78 33.9 26.1 39.1



#58
 2-Chloroethyl Vinyl ether
 Concen: 37.709 ug/l
 RT: 9.62 min Scan# 873
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Tgt Ion: 63 Resp: 189610
 Ion Ratio Lower Upper
 63 100
 106 25.6 22.4 33.6

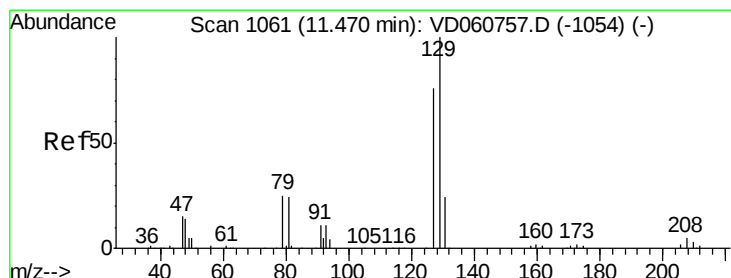
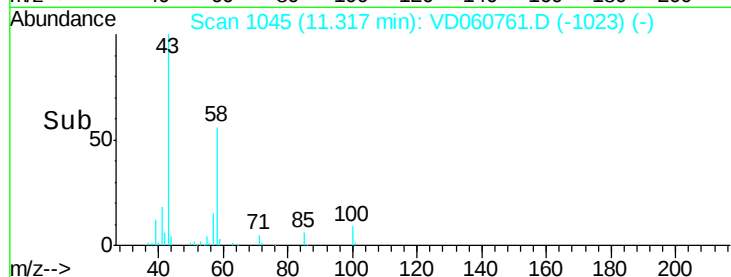
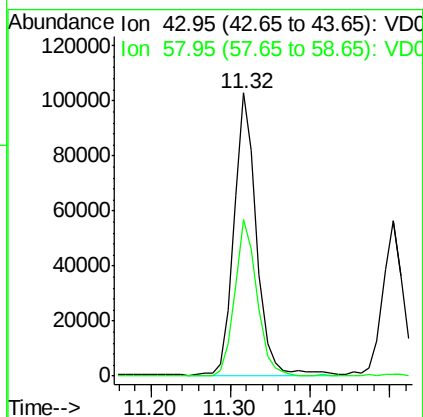
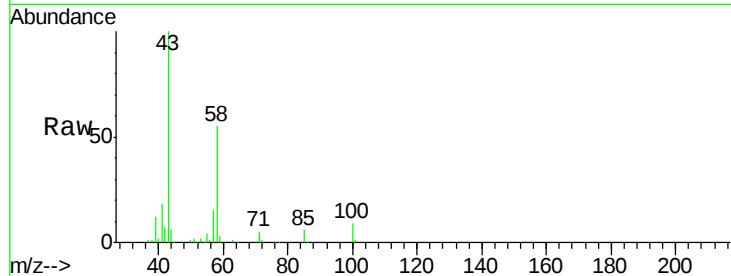




#59
2-Hexanone
Concen: 42.380 ug/l
RT: 11.32 min Scan# 1045
Delta R.T. 0.02 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

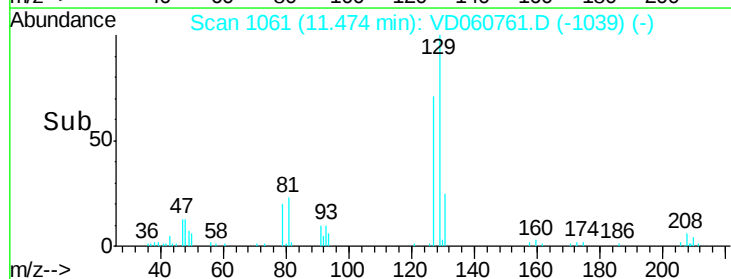
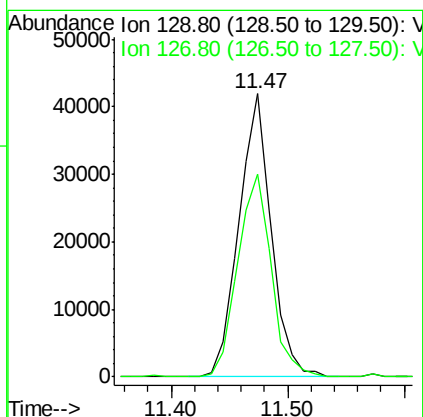
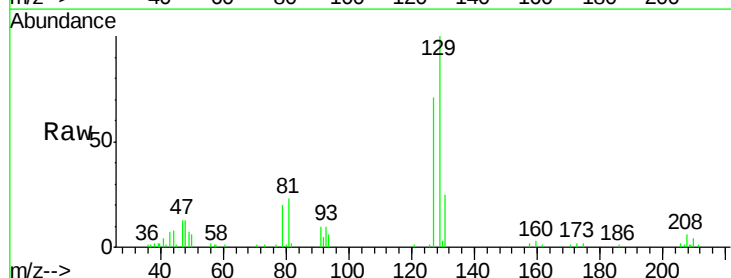
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

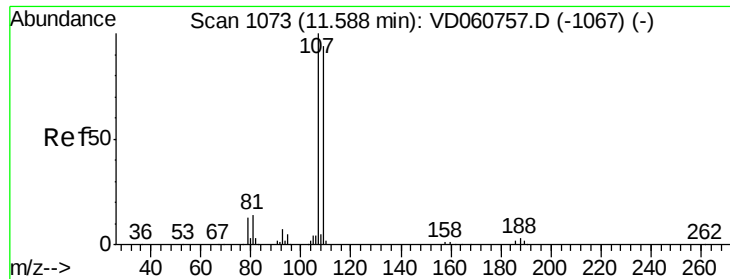
Tot Ion: 43 Resp: 205692
Ion Ratio Lower Upper
43 100
58 55.4 23.5 70.5



#60
Dibromochloromethane
Concen: 6.875 ug/l
RT: 11.47 min Scan# 1061
Delta R.T. 0.02 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion:129 Resp: 80462
Ion Ratio Lower Upper
129 100
127 71.4 37.6 112.9

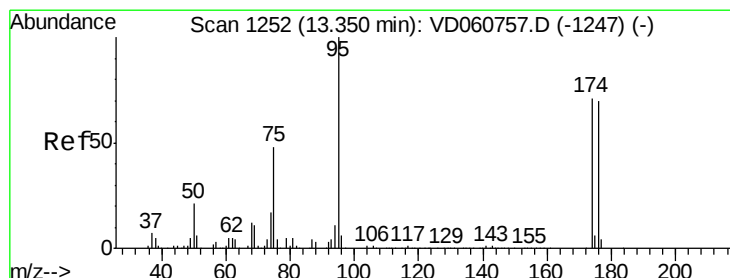
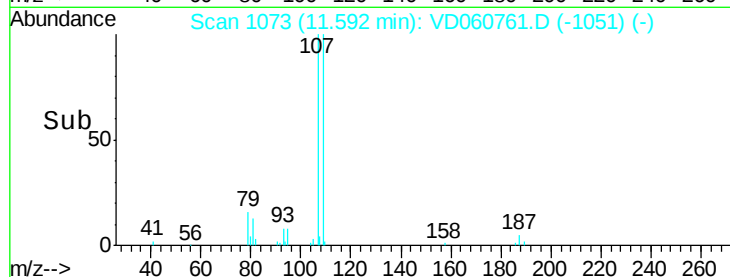
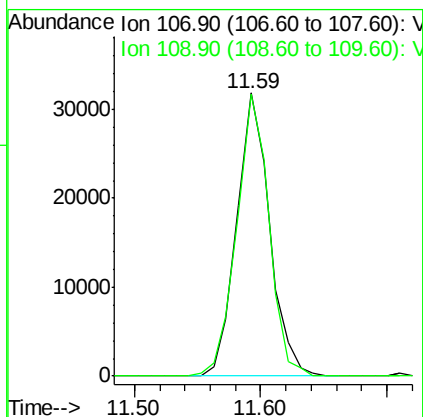
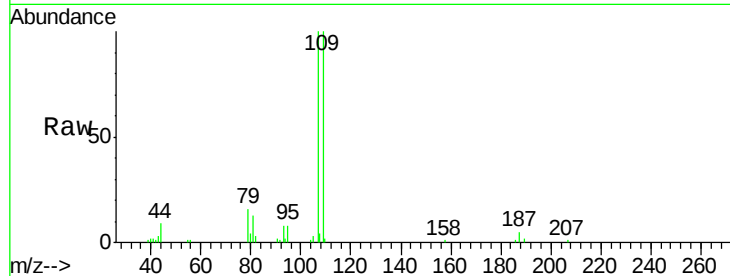




#61
 1,2-Dibromoethane
 Concen: 6.035 ug/l
 RT: 11.59 min Scan# 1073
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

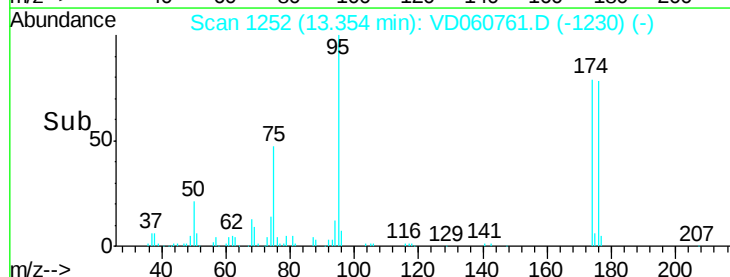
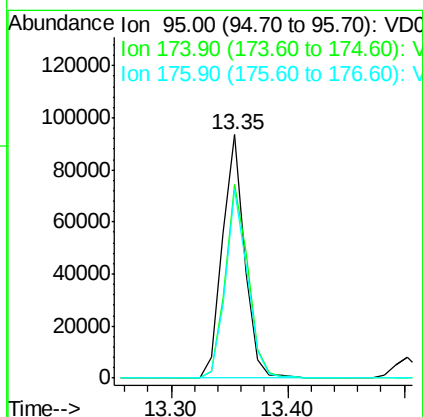
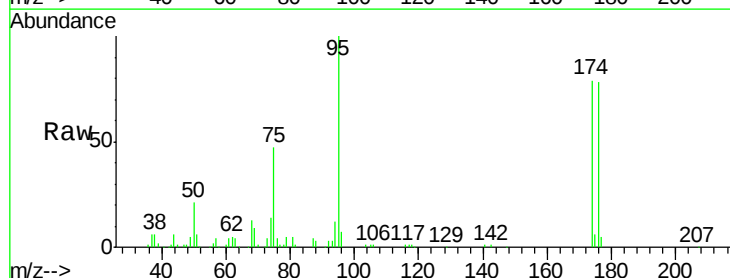
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

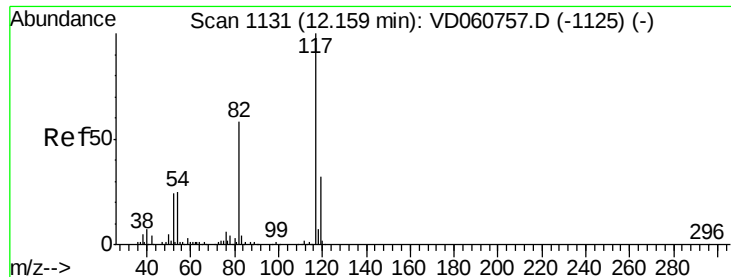
Tot Ion:107 Resp: 57510
 Ion Ratio Lower Upper
 107 100
 109 99.7 78.0 117.0



#62
 4-Bromofluorobenzene
 Concen: 6.035 ug/l
 RT: 13.35 min Scan# 1252
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Tgt Ion: 95 Resp: 122870
 Ion Ratio Lower Upper
 95 100
 174 79.4 0.0 158.2
 176 77.5 0.0 152.4

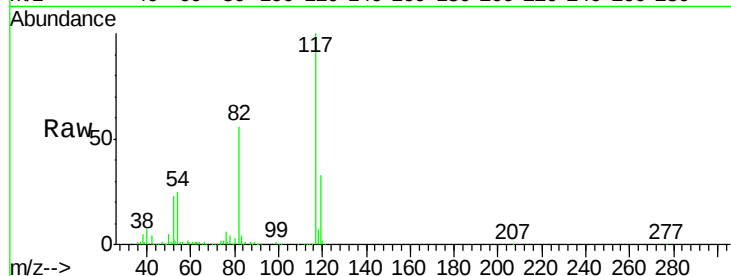




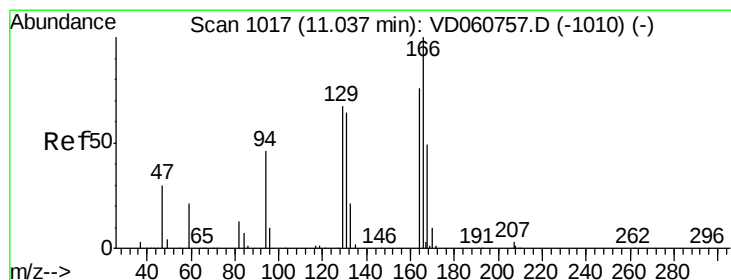
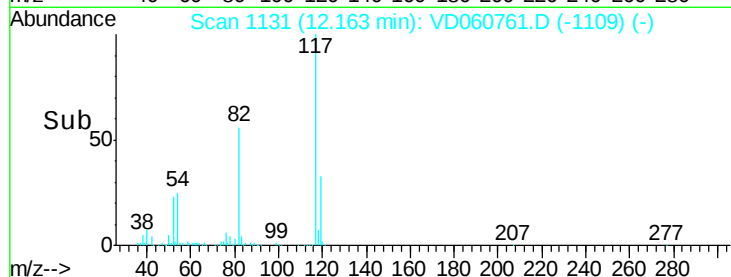
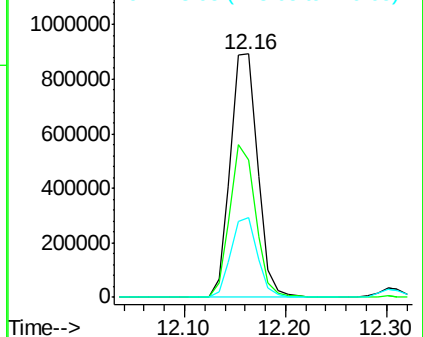
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.16 min Scan# 1131
Delta R.T. 0.02 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion:117 Resp: 1685045
Ion Ratio Lower Upper
117 100
82 56.2 44.5 66.7
119 32.7 26.3 39.5

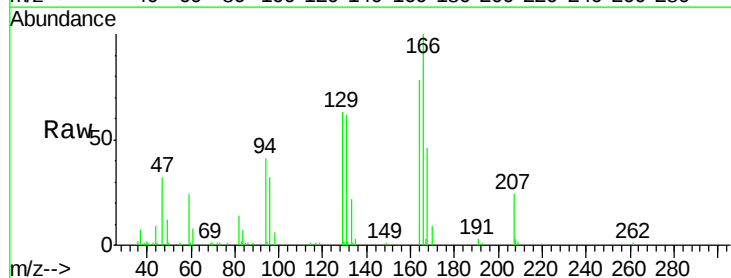


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

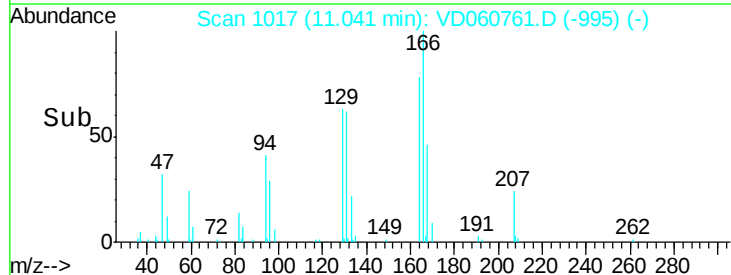
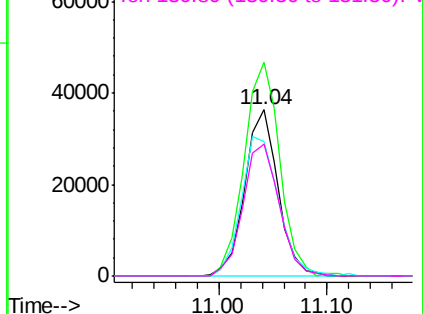


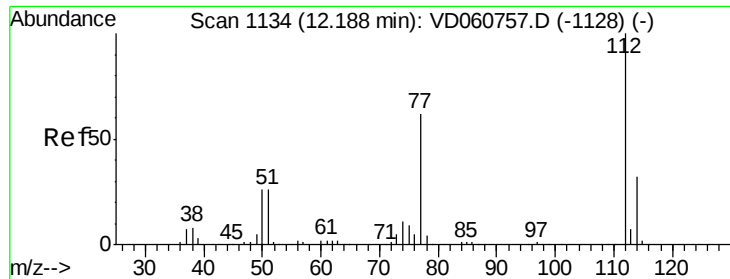
#64
Tetrachloroethene
Concen: 5.103 ug/l
RT: 11.04 min Scan# 1017
Delta R.T. 0.02 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion:164 Resp: 77944
Ion Ratio Lower Upper
164 100
166 128.5 104.4 156.6
129 81.0 62.7 94.1
131 79.5 61.1 91.7



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

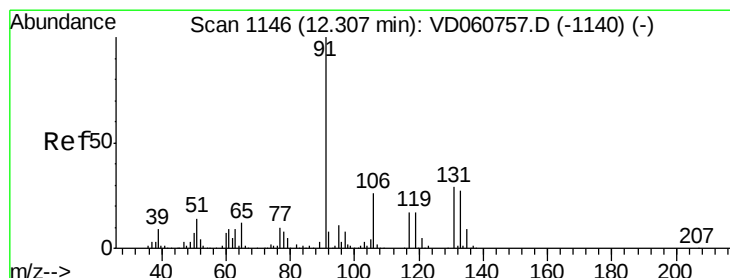
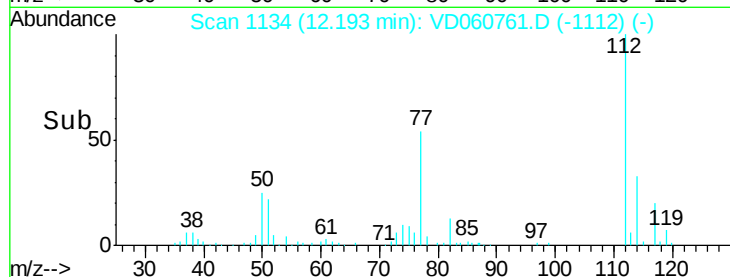
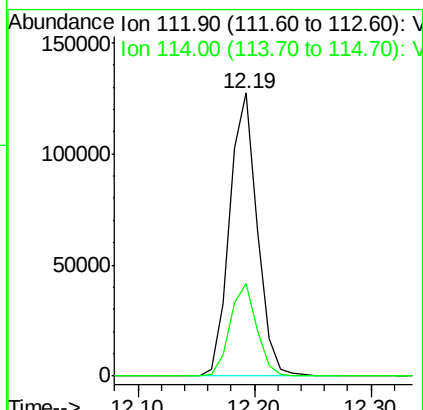
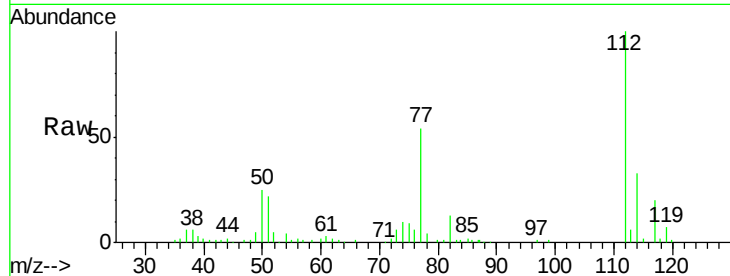




#65
Chlorobenzene
Concen: 5.624 ug/l
RT: 12.19 min Scan# 1134
Delta R.T. 0.02 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

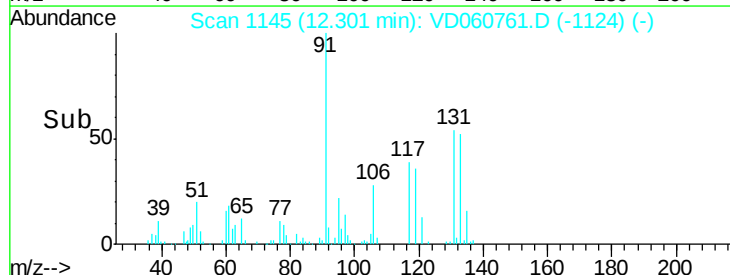
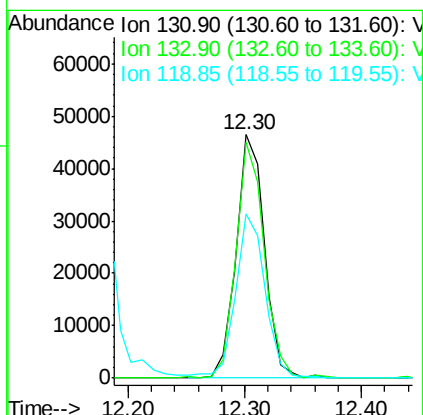
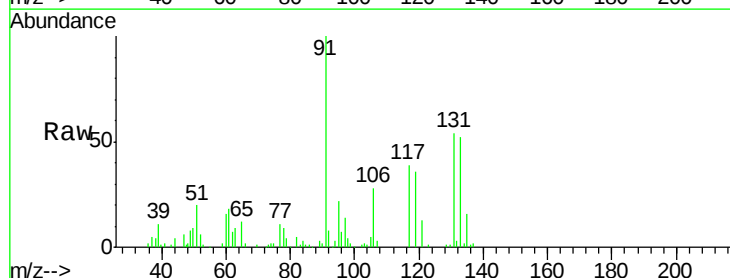
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

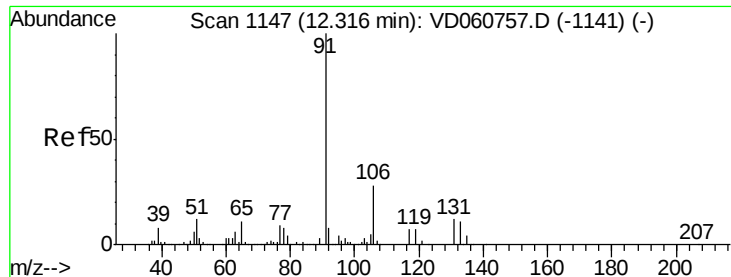
Tot Ion:112 Resp: 209376
Ion Ratio Lower Upper
112 100
114 32.6 26.1 39.1



#66
1,1,1,2-Tetrachloroethane
Concen: 6.530 ug/l
RT: 12.30 min Scan# 1145
Delta R.T. 0.01 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion:131 Resp: 78162
Ion Ratio Lower Upper
131 100
133 97.1 49.1 147.3
119 67.7 36.6 109.8





#67

Ethyl Benzene

Concen: 5.757 ug/l

RT: 12.31 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

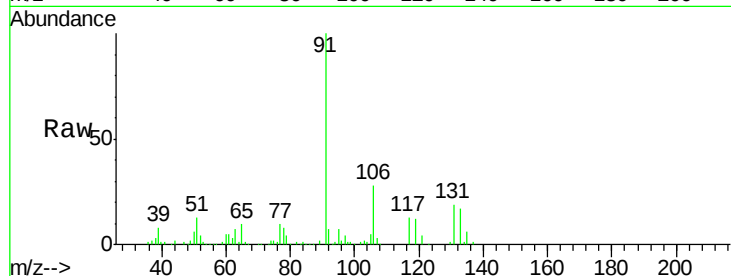
VSTDIC005

Tot Ion: 91 Resp: 367043

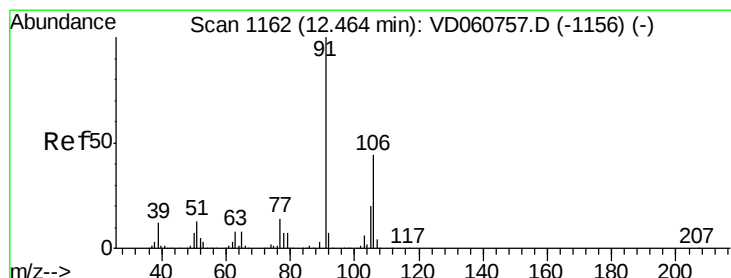
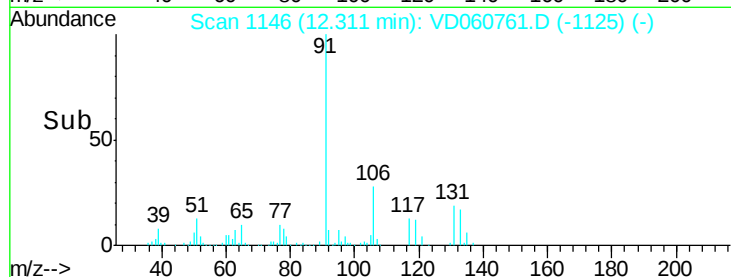
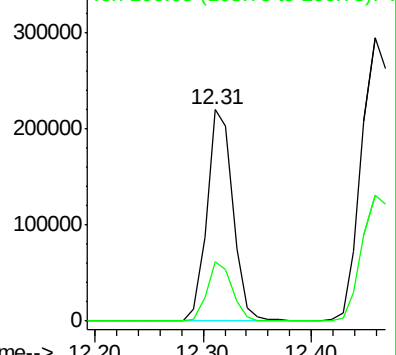
Ion Ratio Lower Upper

91 100

106 28.0 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): VD060757.D (-1141) (-)



#68

m/p-Xylenes

Concen: 11.393 ug/l

RT: 12.46 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VD060761.D

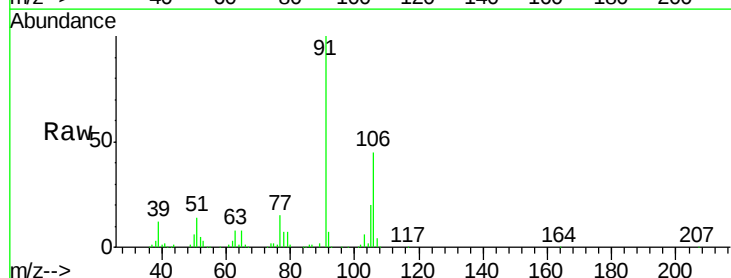
Acq: 18 Jan 2019 14:29

Tgt Ion: 106 Resp: 265459

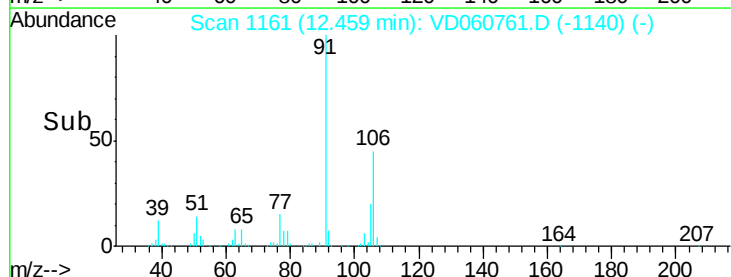
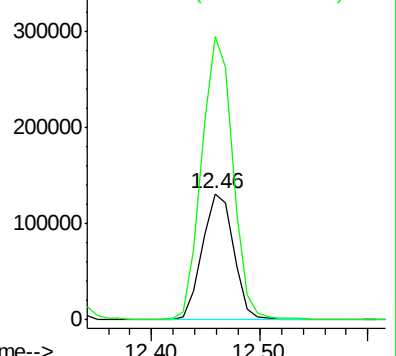
Ion Ratio Lower Upper

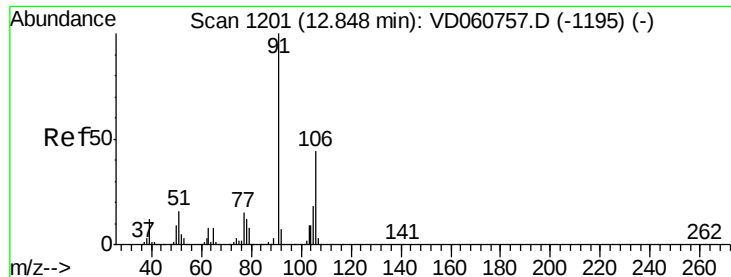
106 100

91 224.1 158.9 238.3



Abundance Ion 106.05 (105.75 to 106.75): VD060757.D (-1156) (-)

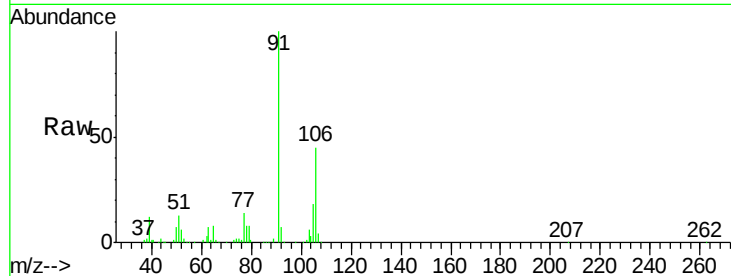




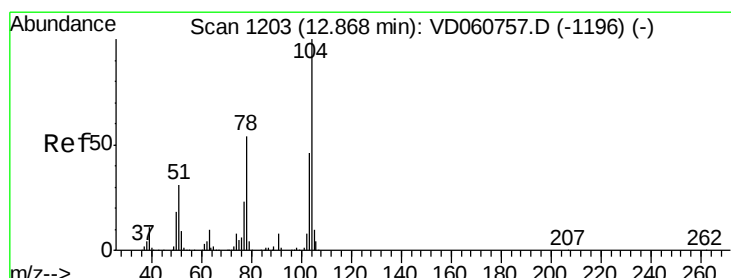
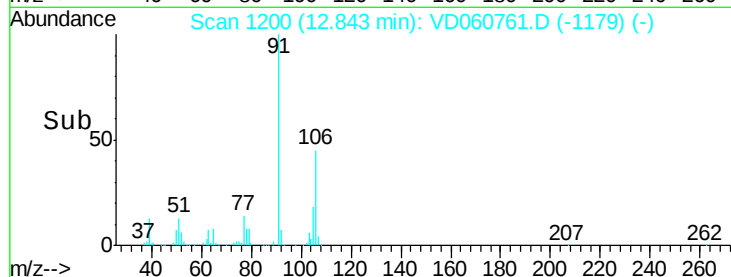
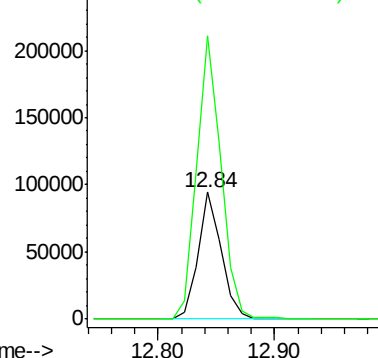
#69
o-Xylene
Concen: 5.893 ug/l
RT: 12.84 min Scan# 1200
Delta R.T. 0.01 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 130260
Ion Ratio Lower Upper
106 100
91 223.5 101.5 304.5

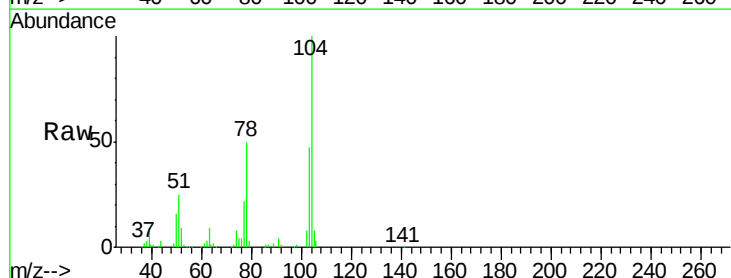


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

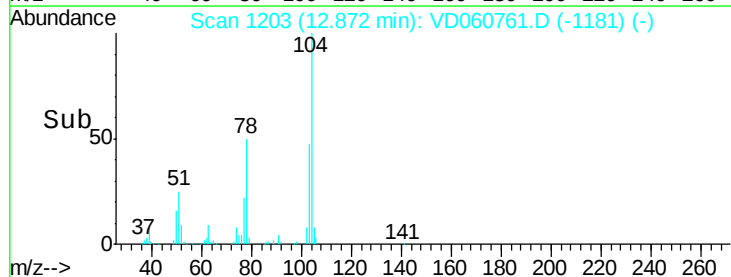
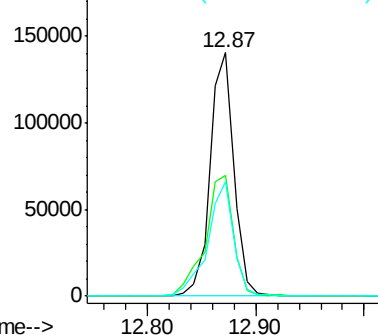


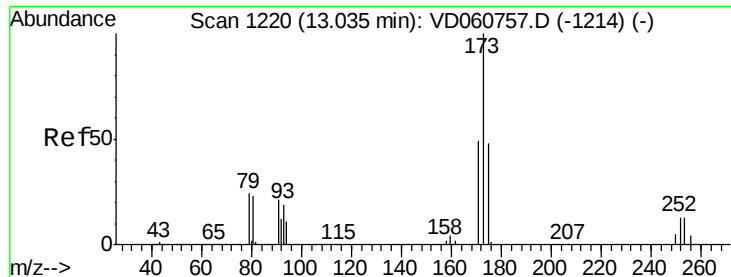
#70
Styrene
Concen: 6.029 ug/l
RT: 12.87 min Scan# 1203
Delta R.T. 0.02 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion:104 Resp: 214664
Ion Ratio Lower Upper
104 100
78 49.6 31.4 47.2#
103 46.7 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V

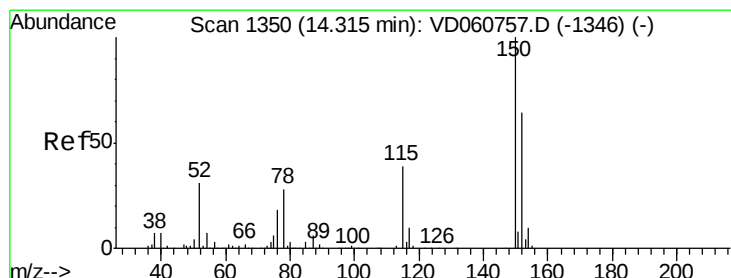
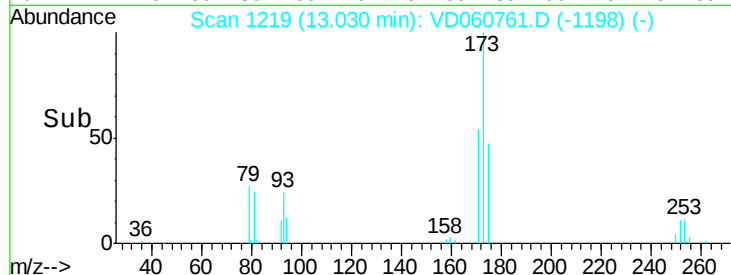
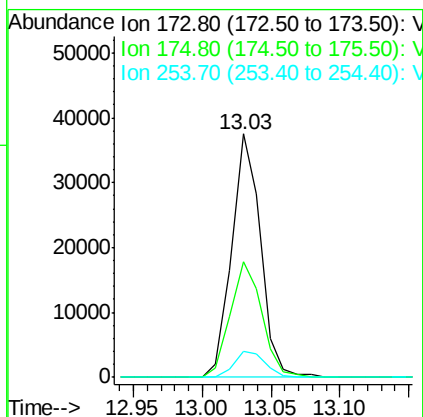
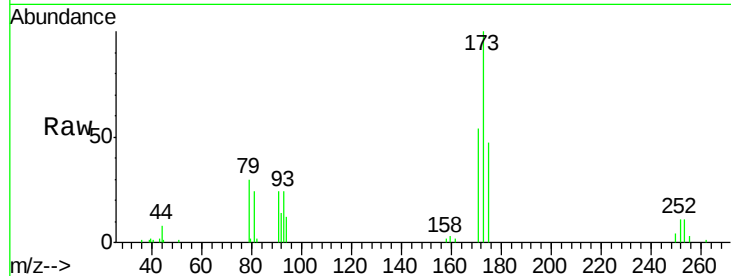




#71
Bromoform
Concen: 6.940 ug/l
RT: 13.03 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

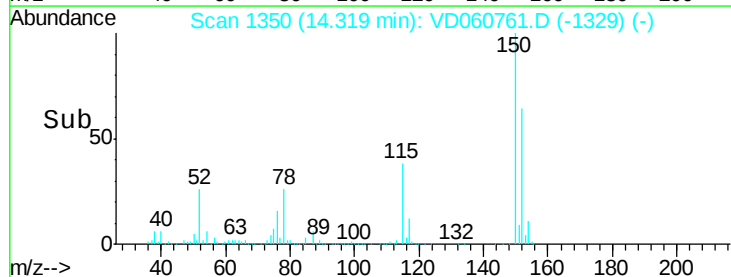
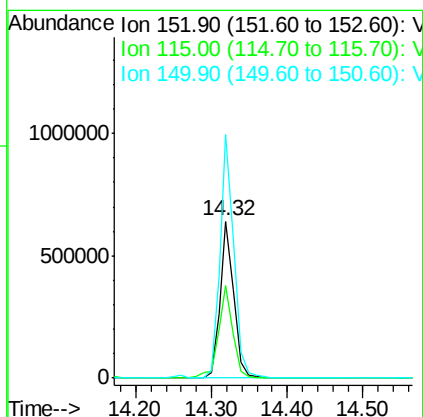
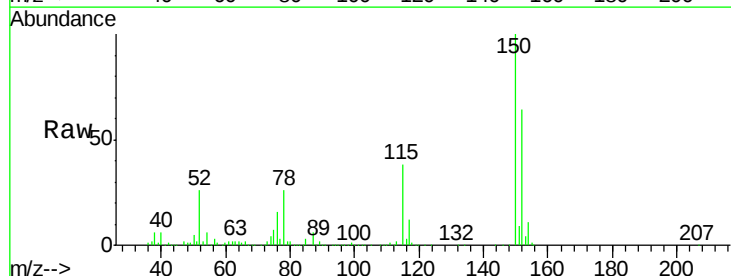
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

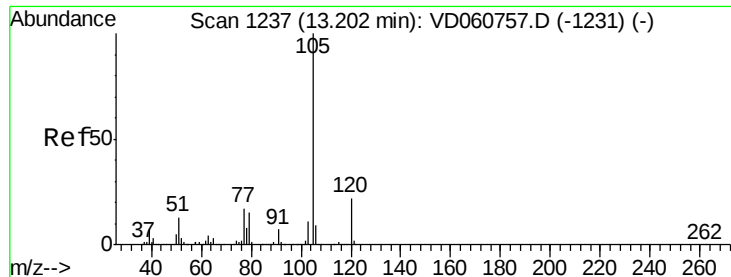
Tot Ion:173 Resp: 54838
Ion Ratio Lower Upper
173 100
175 47.5 25.5 76.5
254 10.8 7.9 11.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.32 min Scan# 1350
Delta R.T. 0.01 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion:152 Resp: 816199
Ion Ratio Lower Upper
152 100
115 59.2 24.1 72.3
150 155.1 0.0 315.0





#73

Isopropylbenzene

Concen: 6.015 ug/l

RT: 13.20 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

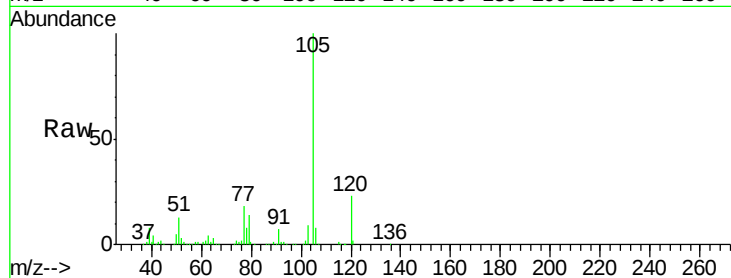
VSTDIC005

Tot Ion:105 Resp: 349531

Ion Ratio Lower Upper

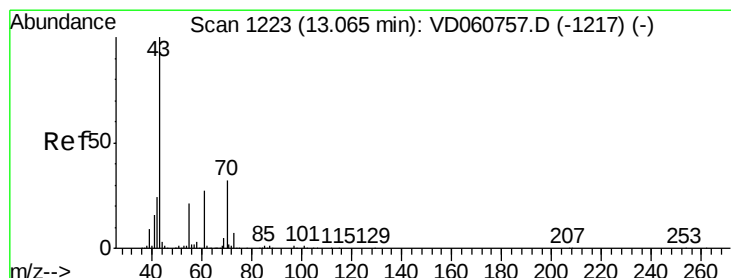
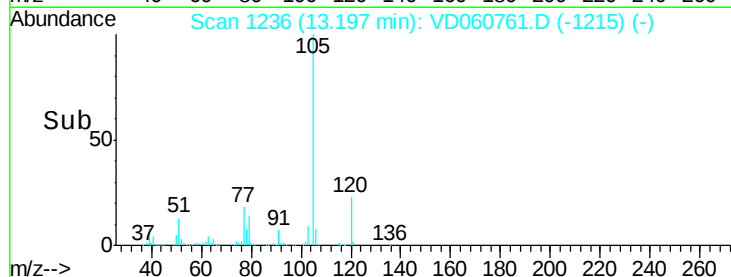
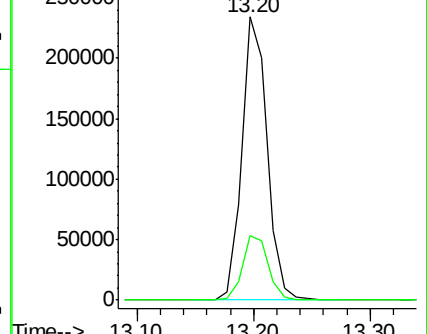
105 100

120 22.8 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 7.939 ug/l

RT: 13.06 min Scan# 1222

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Tgt Ion: 43 Resp: 108886

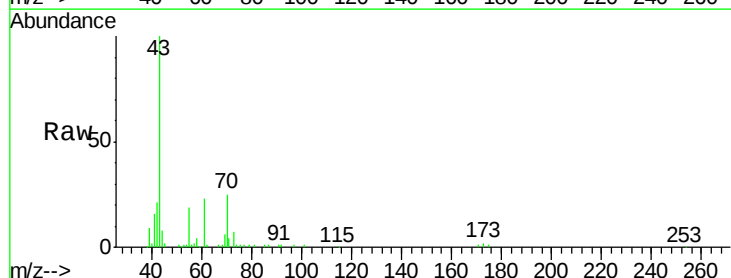
Ion Ratio Lower Upper

43 100

70 25.5 22.2 33.2

55 19.0 13.8 20.8

61 23.0 18.2 27.2

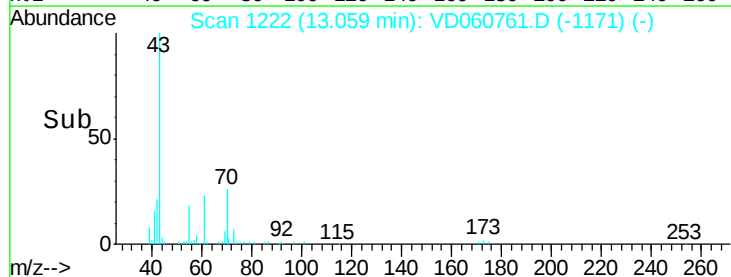
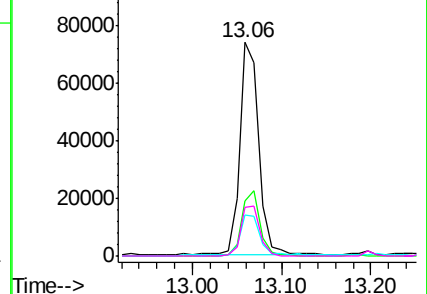


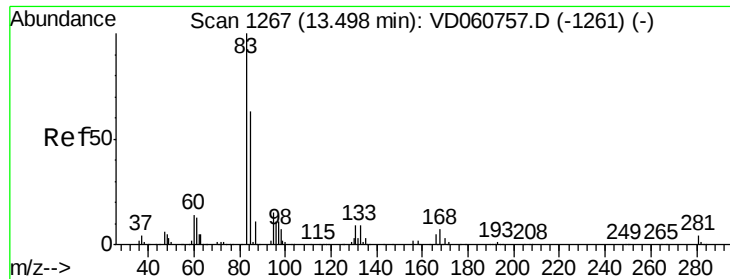
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 7.713 ug/l

RT: 13.50 min Scan# 1267

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

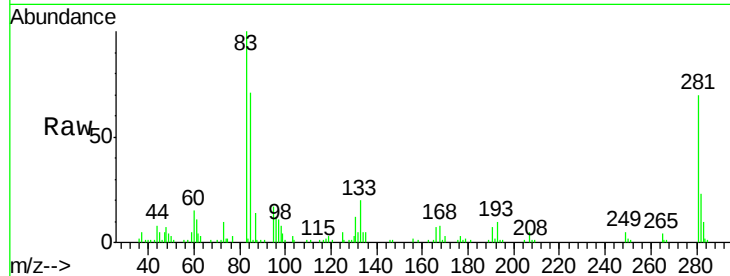
Tot Ion: 83 Resp: 72648

Ion Ratio Lower Upper

83 100

131 12.1 4.2 12.4

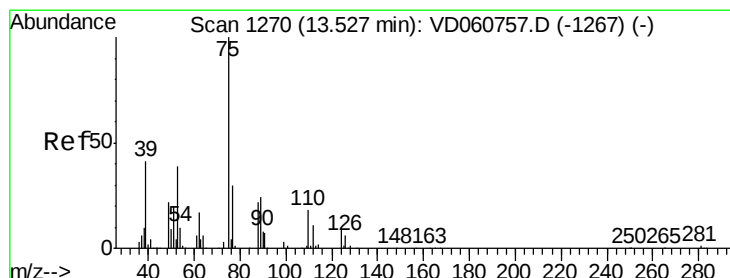
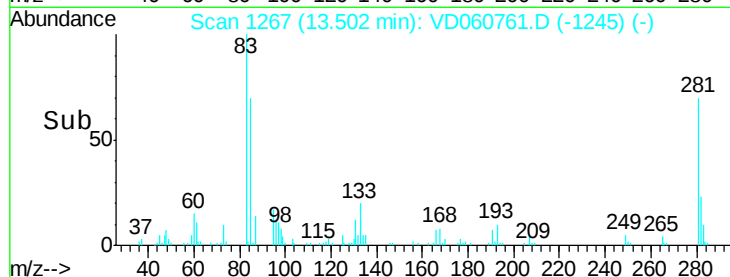
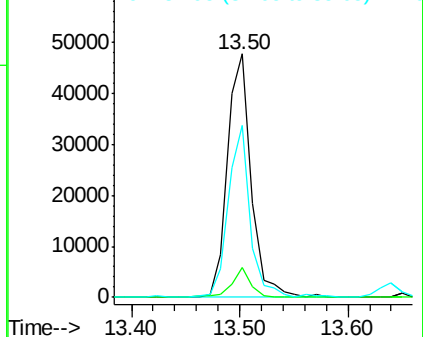
85 70.8 32.6 97.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 8.952 ug/l

RT: 13.53 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VD060761.D

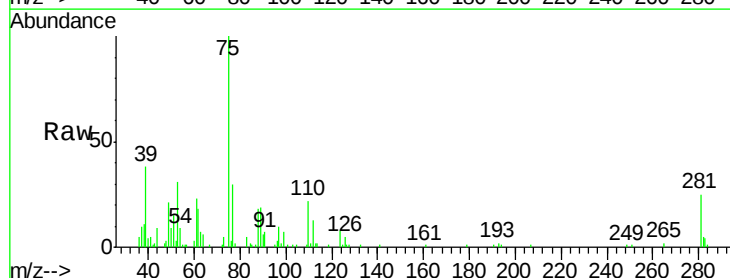
Acq: 18 Jan 2019 14:29

Tgt Ion: 75 Resp: 83184

Ion Ratio Lower Upper

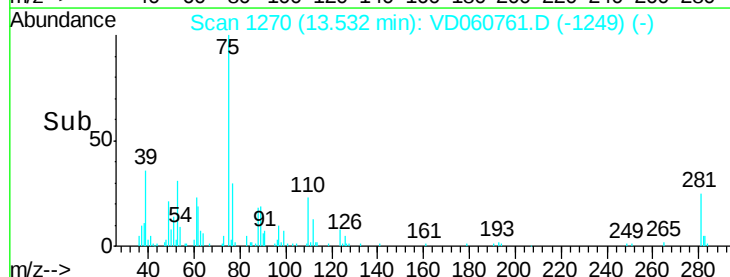
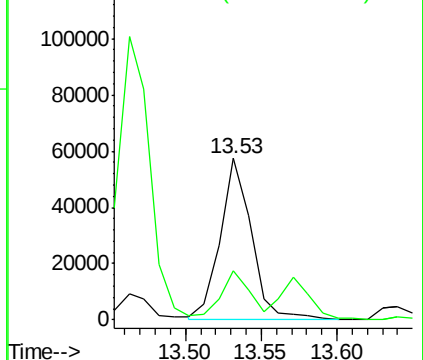
75 100

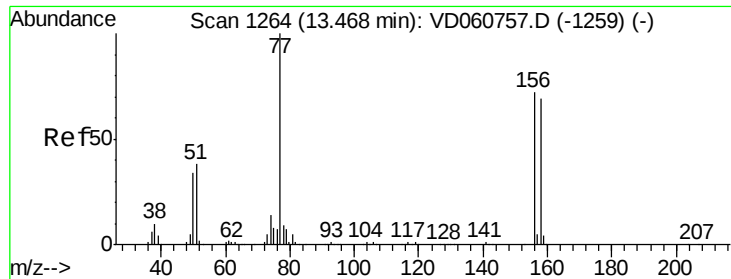
77 30.1 16.7 50.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 6.366 ug/l

RT: 13.47 min Scan# 1264

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

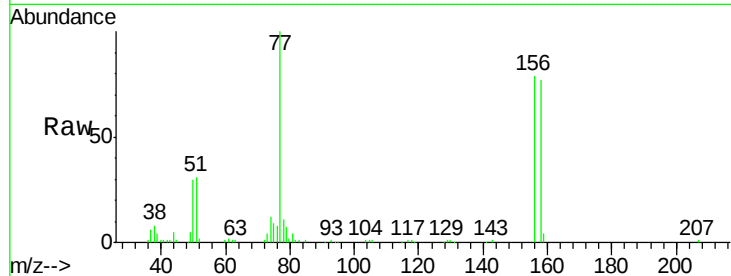
Tot Ion:156 Resp: 97671

Ion Ratio Lower Upper

156 100

77 125.9 61.3 183.9

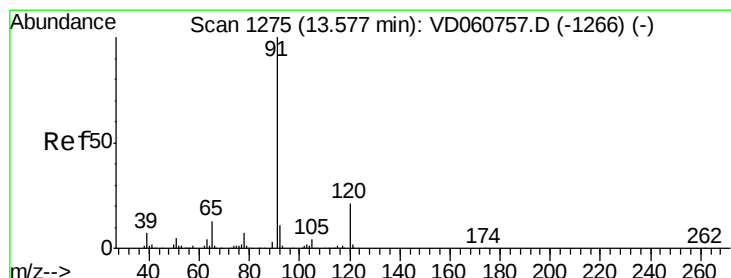
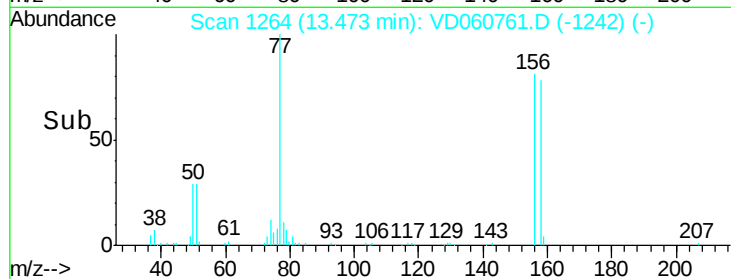
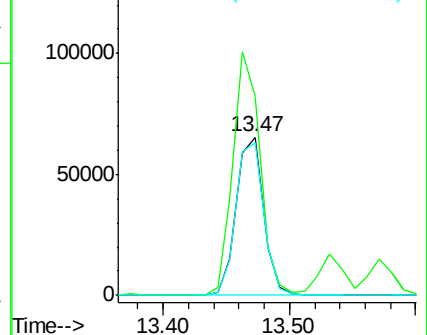
158 96.8 48.9 146.6



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 6.298 ug/l

RT: 13.57 min Scan# 1274

Delta R.T. 0.01 min

Lab File: VD060761.D

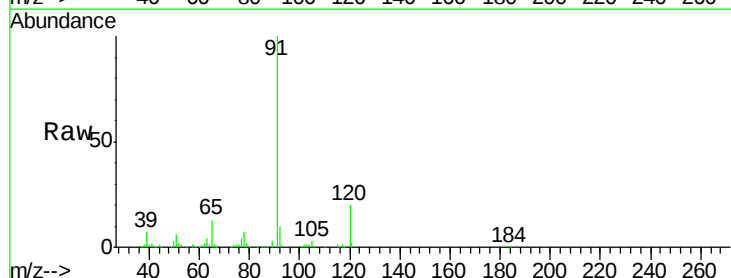
Acq: 18 Jan 2019 14:29

Tgt Ion: 91 Resp: 467911

Ion Ratio Lower Upper

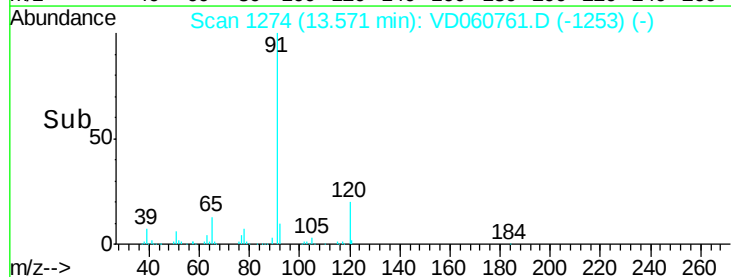
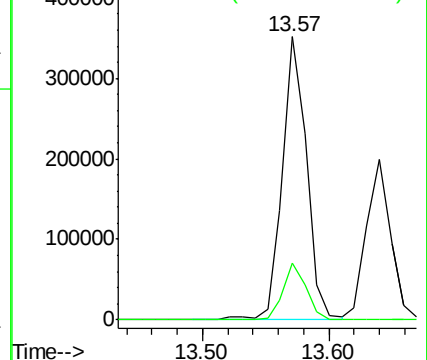
91 100

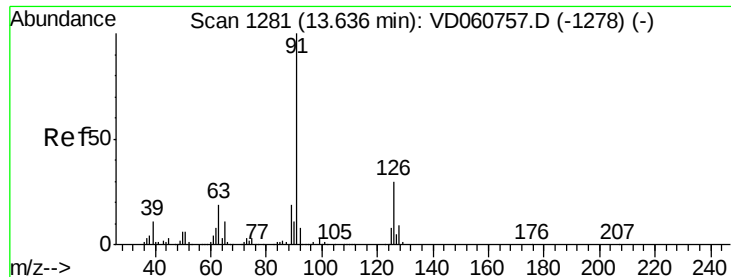
120 20.2 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 6.667 ug/l

RT: 13.64 min Scan# 1281

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

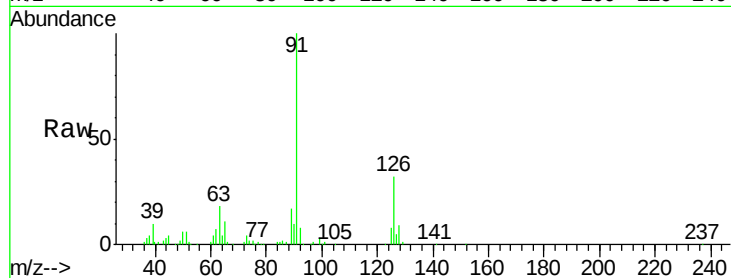
VSTDIC005

Tot Ion: 91 Resp: 265305

Ion Ratio Lower Upper

91 100

126 31.7 17.2 51.5



Abundance Ion 91.00 (90.70 to 91.70): VD060757.D (-1278) (-)

Ion 125.95 (125.65 to 126.65): VD060757.D (-1278) (-)

400000

300000

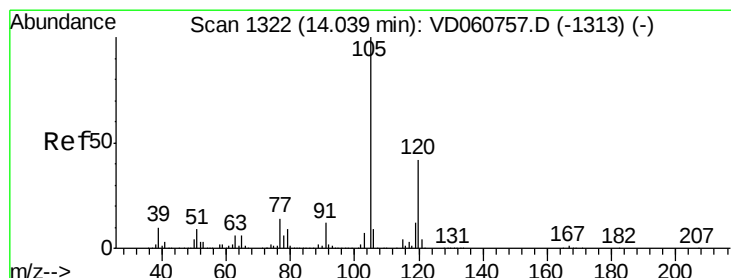
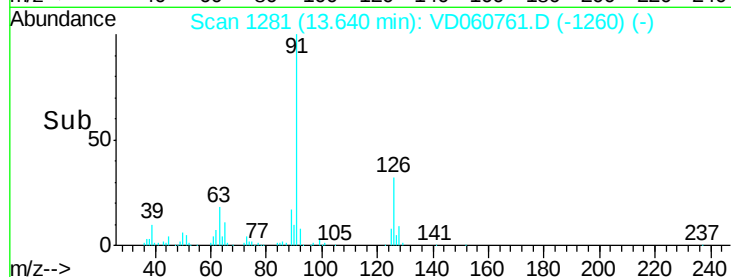
200000

100000

0

13.60 13.65 13.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 7.007 ug/l

RT: 14.03 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VD060761.D

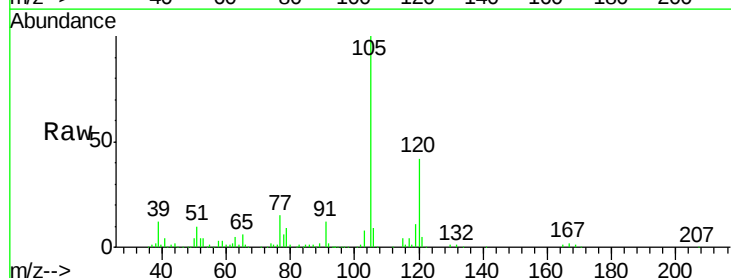
Acq: 18 Jan 2019 14:29

Tgt Ion:105 Resp: 314435

Ion Ratio Lower Upper

105 100

120 41.7 24.8 74.4



Abundance Ion 105.05 (104.75 to 105.75): VD060757.D (-1313) (-)

Ion 120.05 (119.75 to 120.75): VD060757.D (-1313) (-)

300000

250000

200000

150000

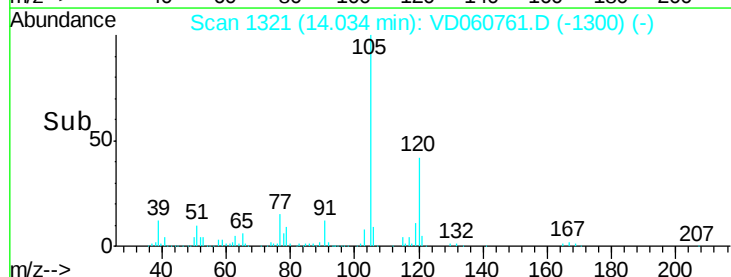
100000

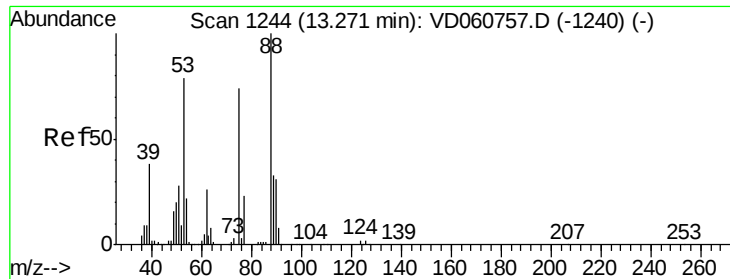
50000

0

13.90 14.00 14.10

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 8.423 ug/l

RT: 13.27 min Scan# 1243

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

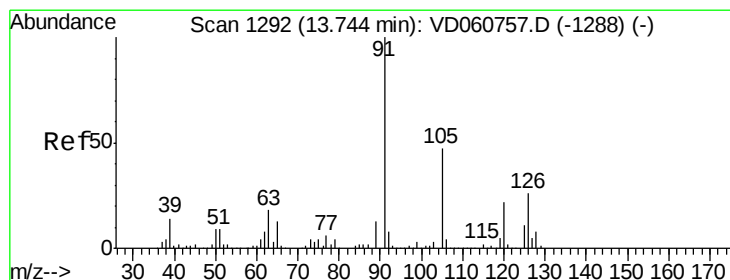
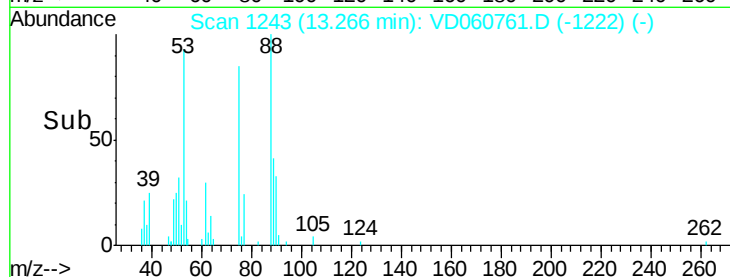
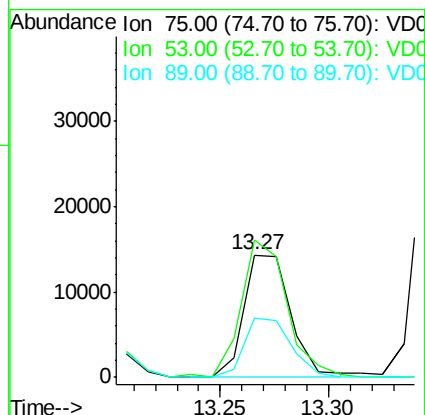
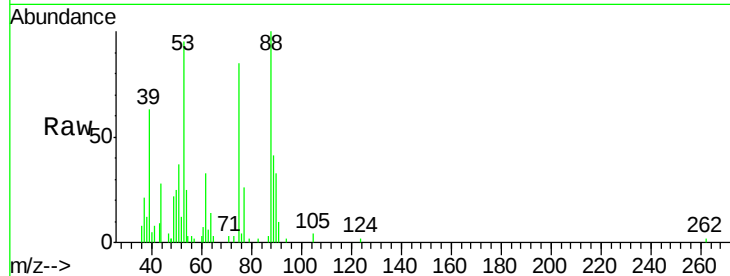
Tot Ion: 75 Resp: 21628

Ion Ratio Lower Upper

75 100

53 112.0 72.1 108.1#

89 48.6 35.1 52.7



#82

4-Chlorotoluene

Concen: 6.857 ug/l

RT: 13.75 min Scan# 1292

Delta R.T. 0.01 min

Lab File: VD060761.D

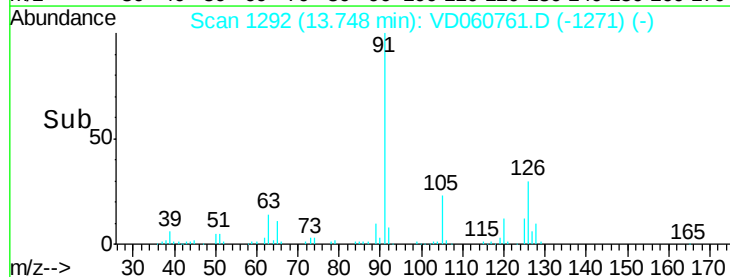
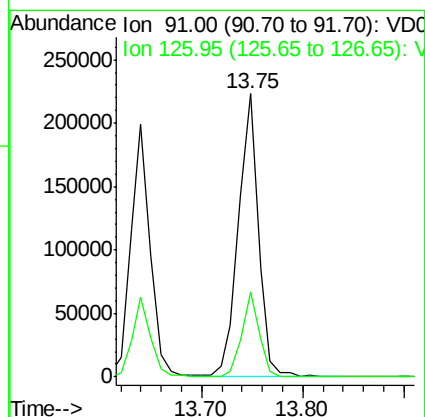
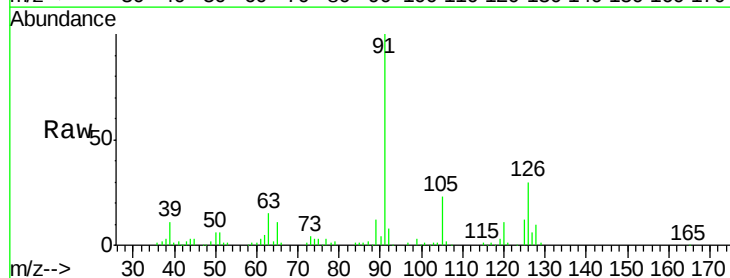
Acq: 18 Jan 2019 14:29

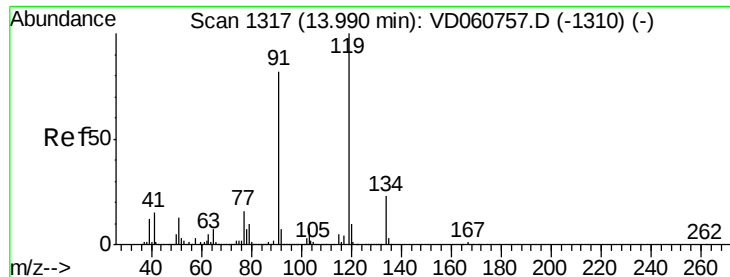
Tgt Ion: 91 Resp: 309267

Ion Ratio Lower Upper

91 100

126 29.8 14.6 43.8





#83

tert-Butylbenzene

Concen: 6.742 ug/l

RT: 13.99 min Scan# 1317

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

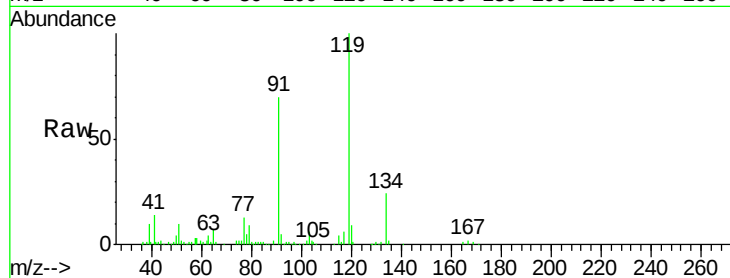
Tot Ion:119 Resp: 344308

Ion Ratio Lower Upper

119 100

91 69.7 32.5 97.4

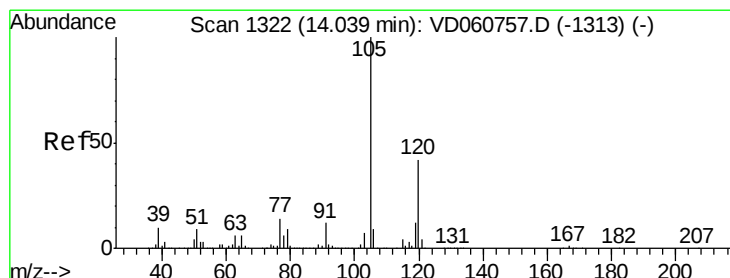
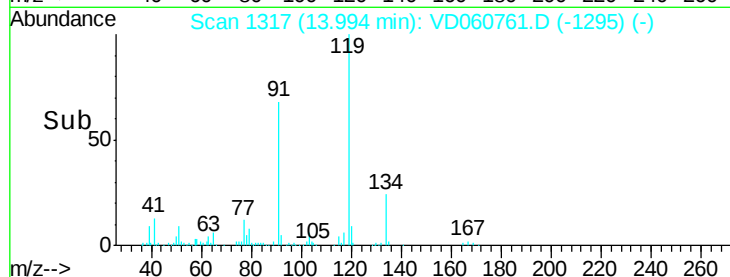
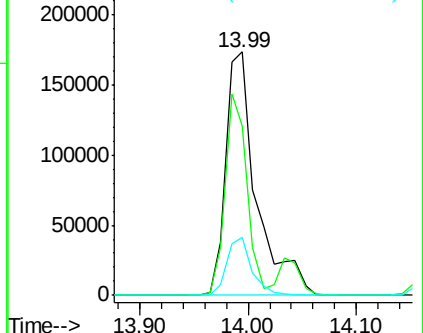
134 23.8 11.9 35.9



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 6.803 ug/l

RT: 14.03 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VD060761.D

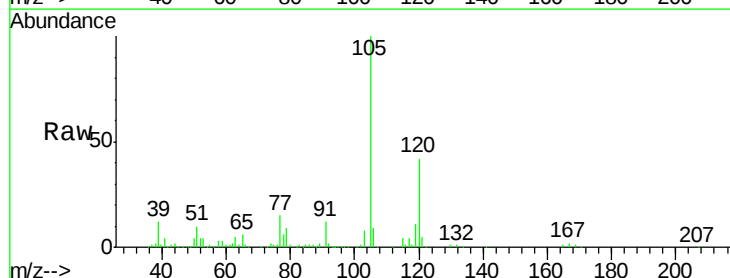
Acq: 18 Jan 2019 14:29

Tgt Ion:105 Resp: 314435

Ion Ratio Lower Upper

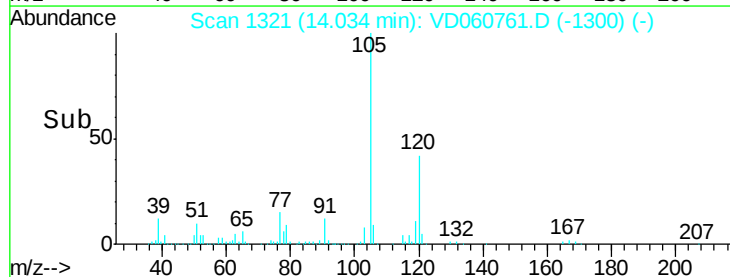
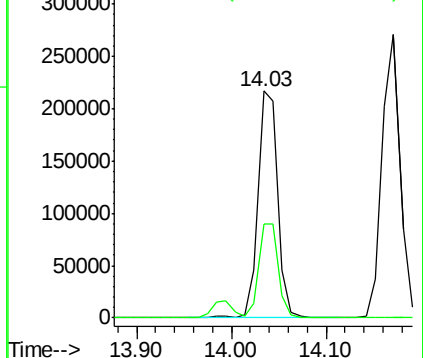
105 100

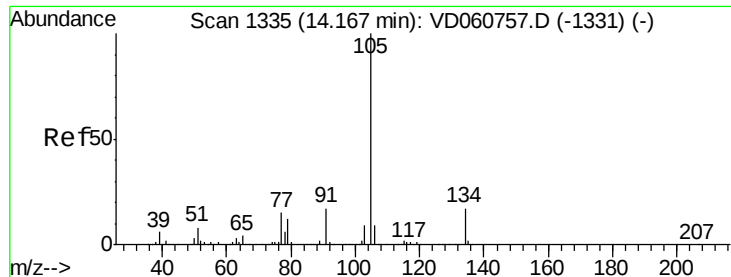
120 41.7 22.4 67.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 5.800 ug/l

RT: 14.17 min Scan# 1335

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

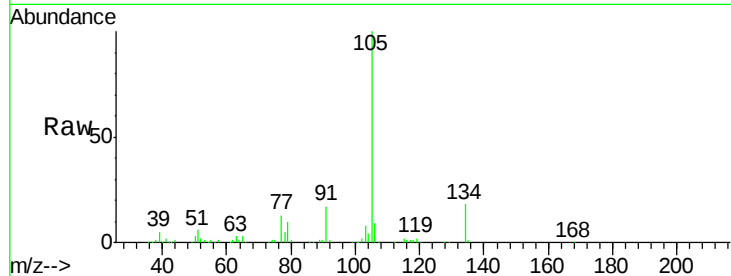
VSTDIC005

Tot Ion:105 Resp: 361237

Ion Ratio Lower Upper

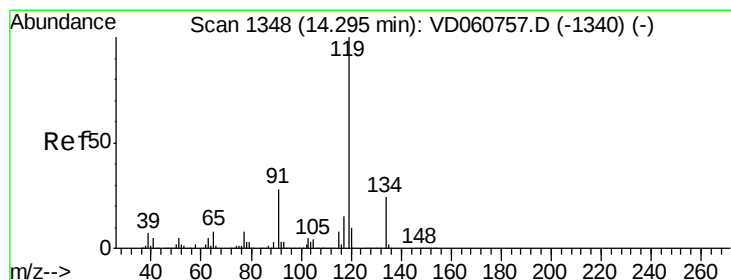
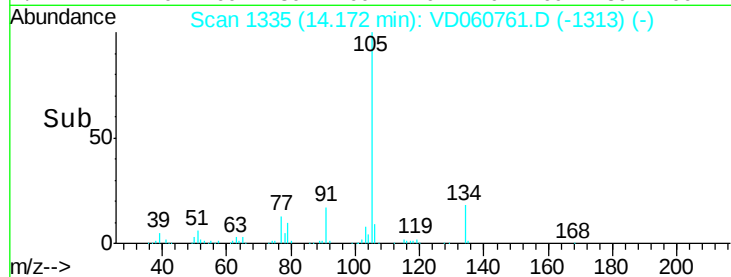
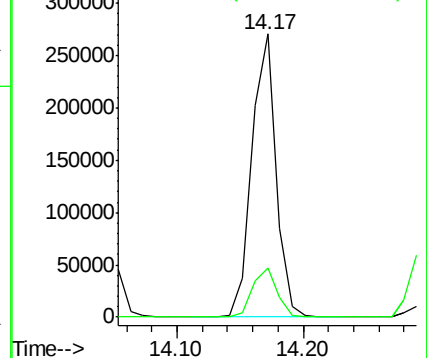
105 100

134 17.6 8.2 24.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 6.414 ug/l

RT: 14.29 min Scan# 1347

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

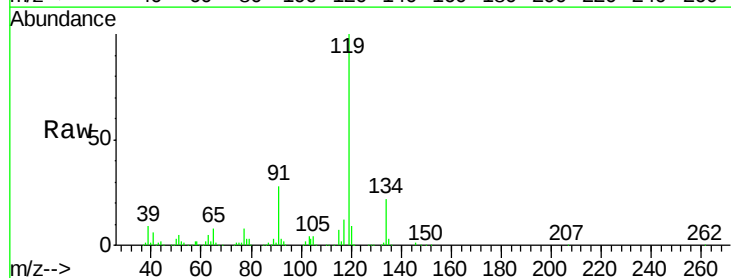
Tgt Ion:119 Resp: 322431

Ion Ratio Lower Upper

119 100

134 21.7 12.5 37.5

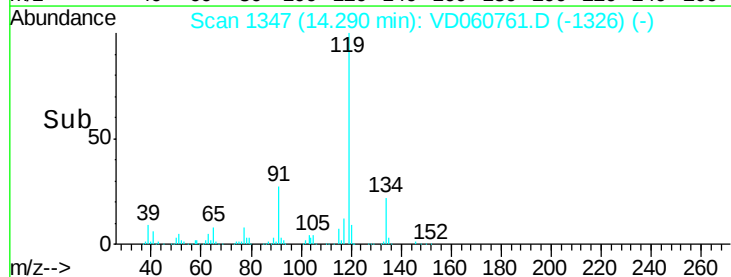
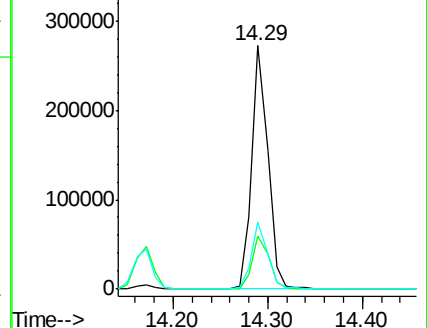
91 27.6 11.4 34.2

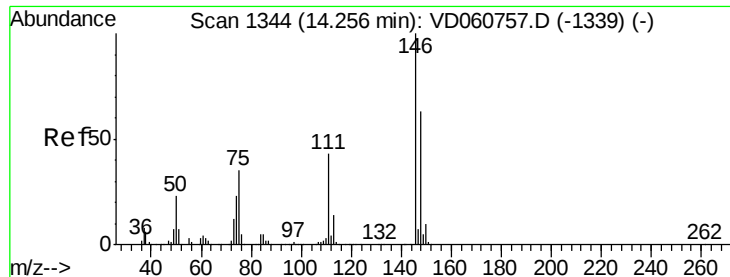


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

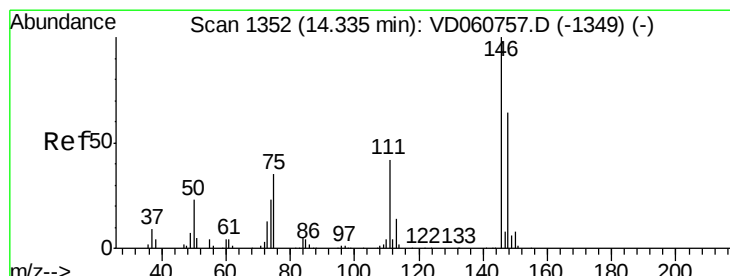
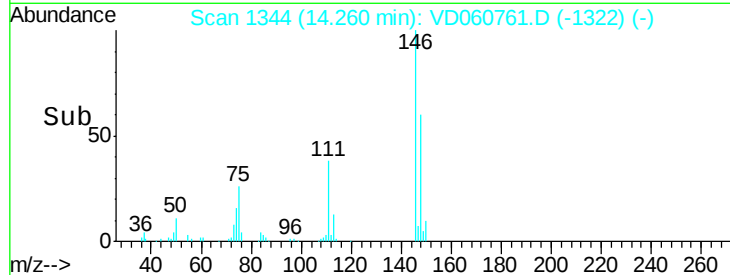
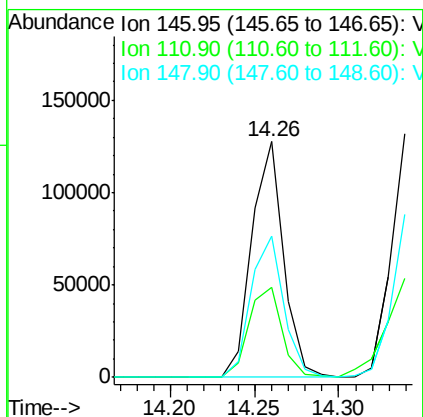
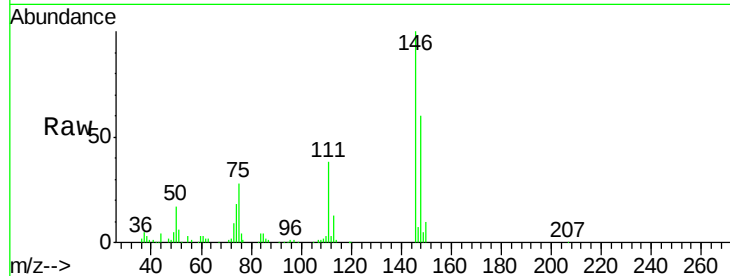




#87
 1,3-Dichlorobenzene
 Concen: 5.933 ug/l
 RT: 14.26 min Scan# 1344
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

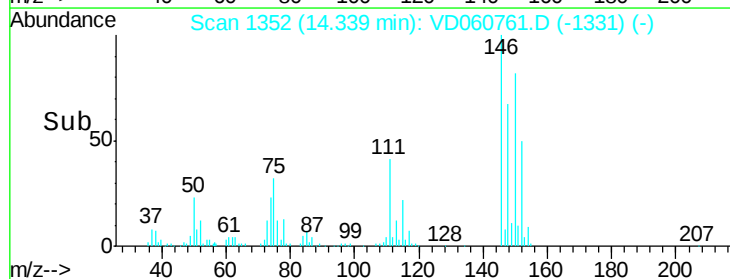
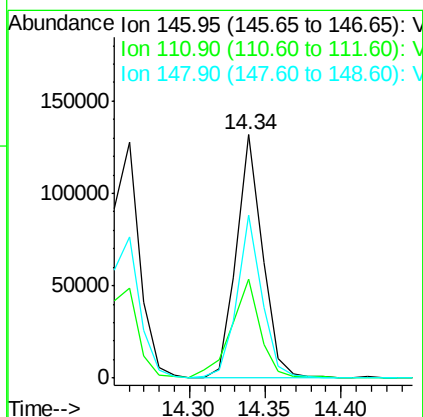
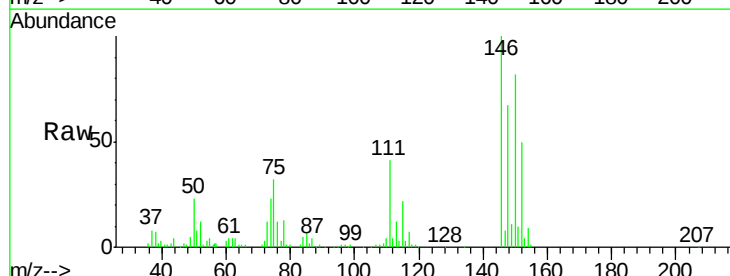
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

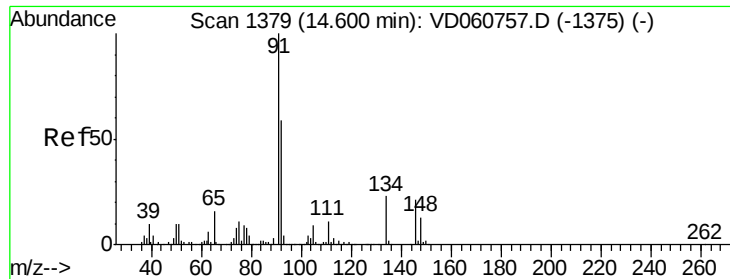
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	16.6	49.8
148	59.9	32.6	97.8



#88
 1,4-Dichlorobenzene
 Concen: 5.723 ug/l
 RT: 14.34 min Scan# 1352
 Delta R.T. 0.01 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	16.2	48.5
148	66.8	32.7	98.1

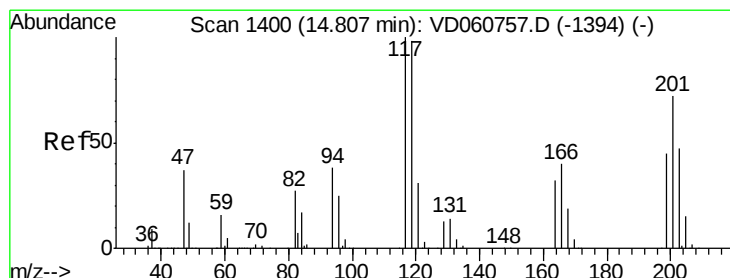
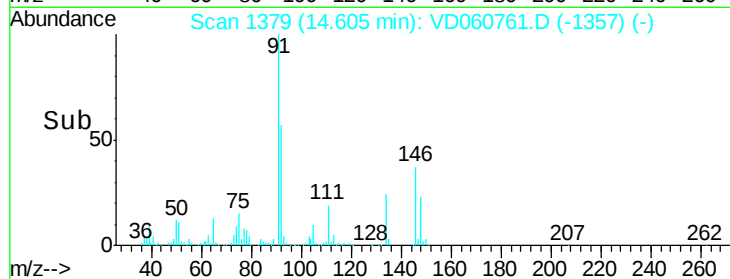
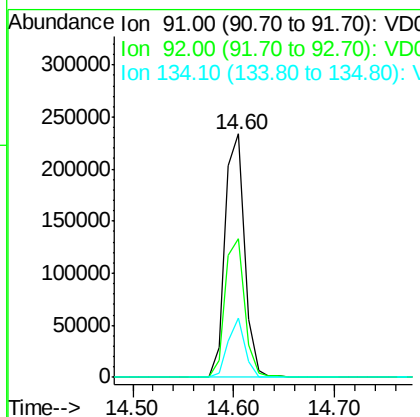
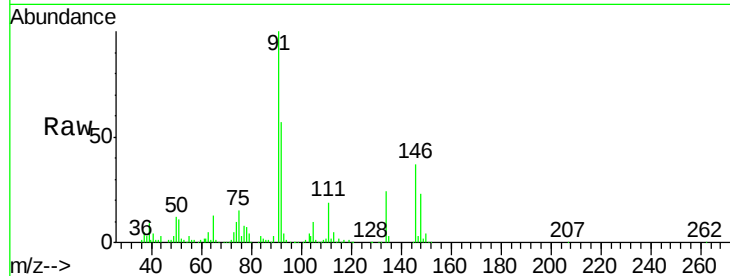




#89
n-Butylbenzene
Concen: 6.173 ug/l
RT: 14.60 min Scan# 1379
Delta R.T. 0.02 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

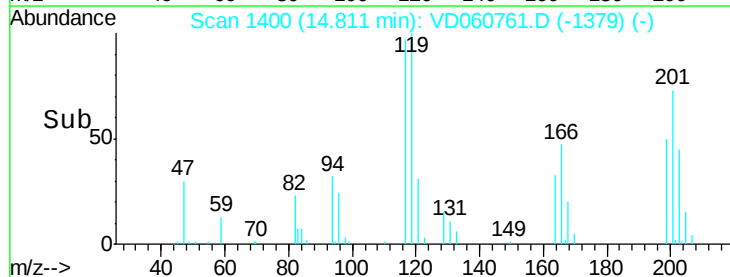
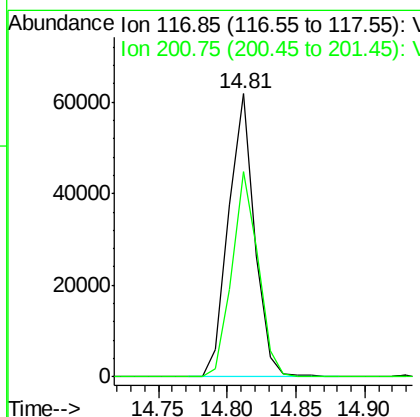
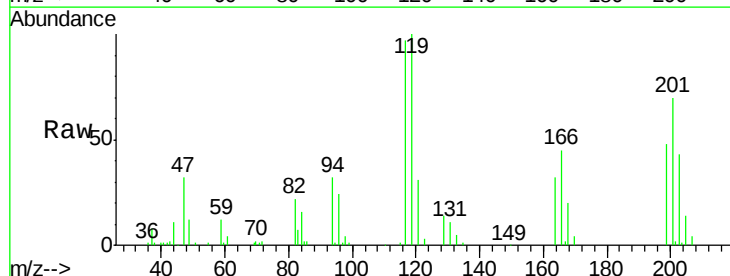
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

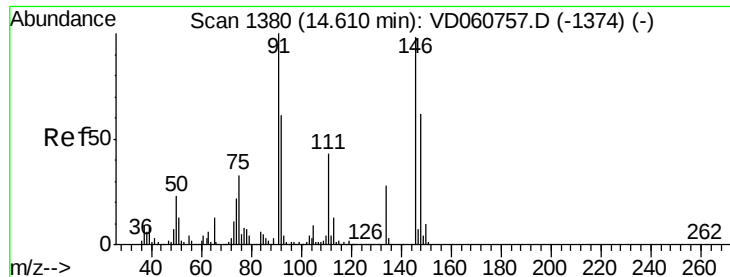
Tot Ion: 91 Resp: 317157
Ion Ratio Lower Upper
91 100
92 56.7 29.7 89.1
134 24.2 12.7 38.1



#90
Hexachloroethane
Concen: 6.568 ug/l
RT: 14.81 min Scan# 1400
Delta R.T. 0.01 min
Lab File: VD060761.D
Acq: 18 Jan 2019 14:29

Tgt Ion: 117 Resp: 81116
Ion Ratio Lower Upper
117 100
201 72.7 42.6 127.8





#91

1,2-Dichlorobenzene

Concen: 6.173 ug/l

RT: 14.61 min Scan# 1380

Delta R.T. 0.02 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

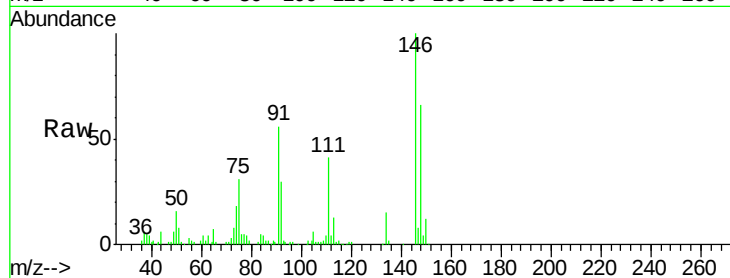
Tot Ion:146 Resp: 139460

Ion Ratio Lower Upper

146 100

111 41.2 19.3 57.9

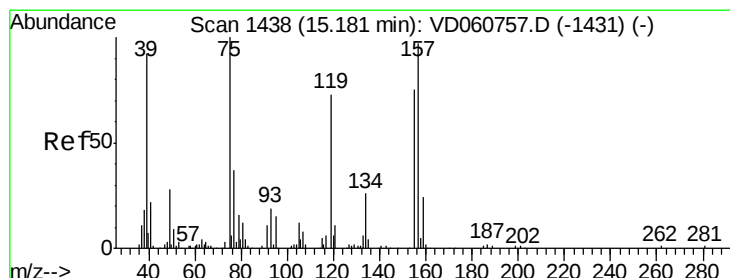
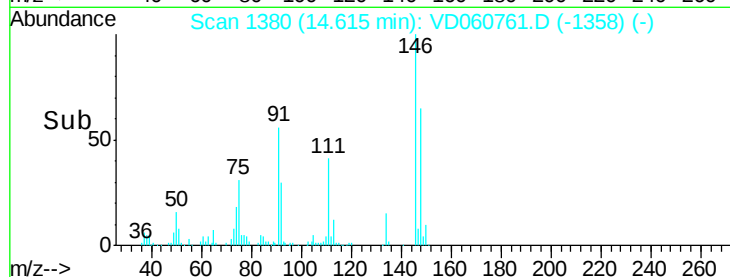
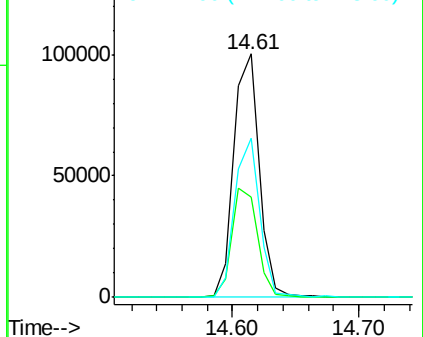
148 65.6 31.9 95.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 10.307 ug/l

RT: 15.19 min Scan# 1438

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

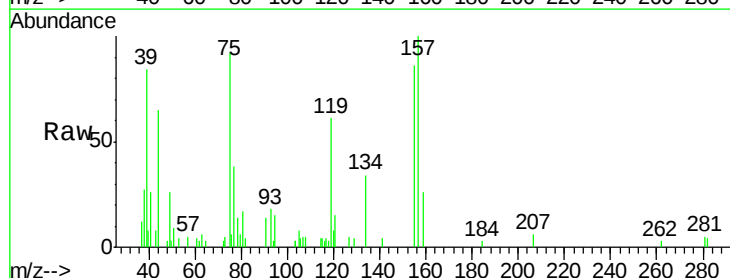
Tgt Ion: 75 Resp: 11406

Ion Ratio Lower Upper

75 100

155 93.9 41.1 123.4

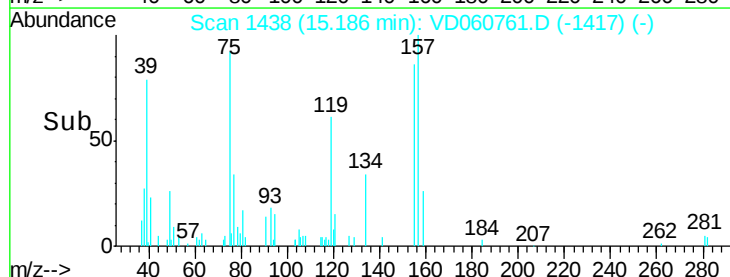
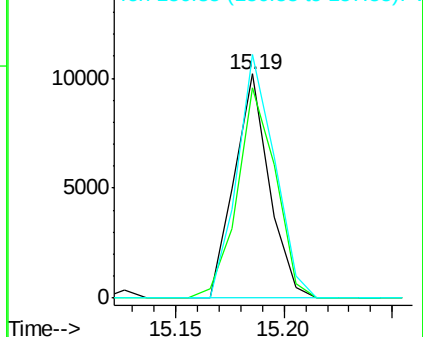
157 108.6 52.5 157.6

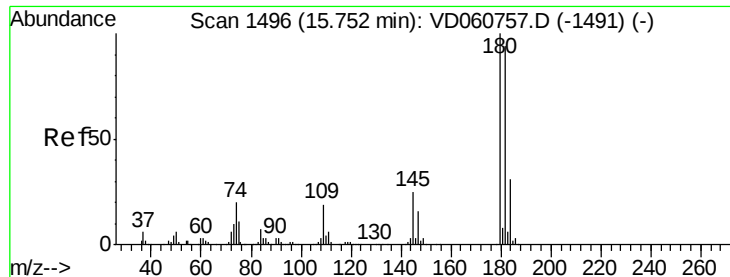


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

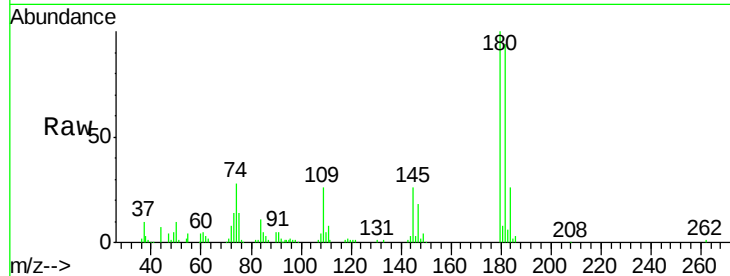




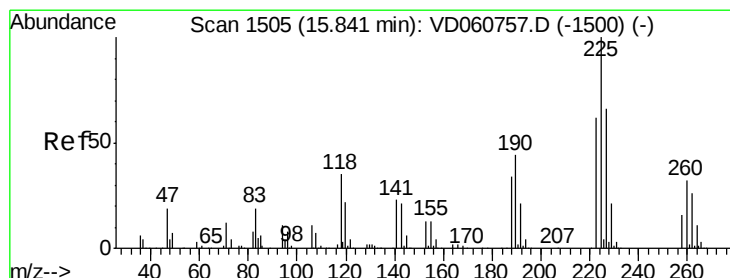
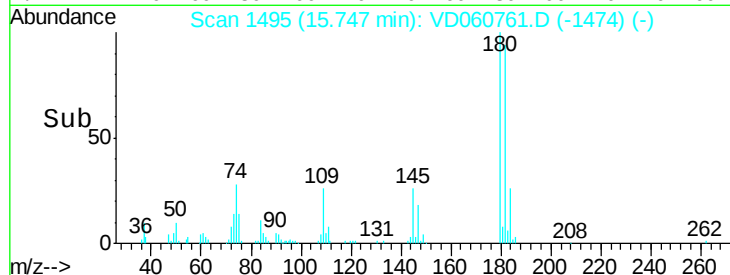
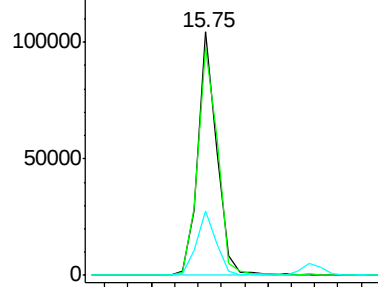
#93
 1,2,4-Trichlorobenzene
 Concen: 6.571 ug/l
 RT: 15.75 min Scan# 1495
 Delta R.T. 0.01 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion:180 Resp: 118137
 Ion Ratio Lower Upper
 180 100
 182 93.9 48.8 146.4
 145 26.4 11.8 35.3

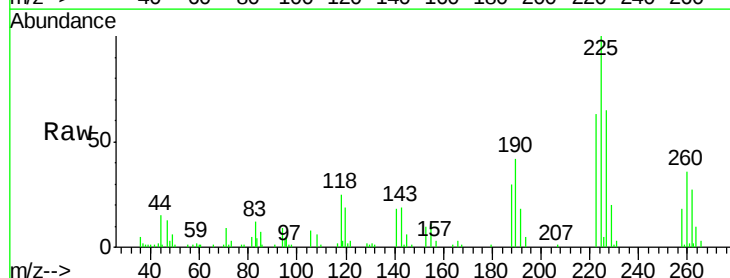


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

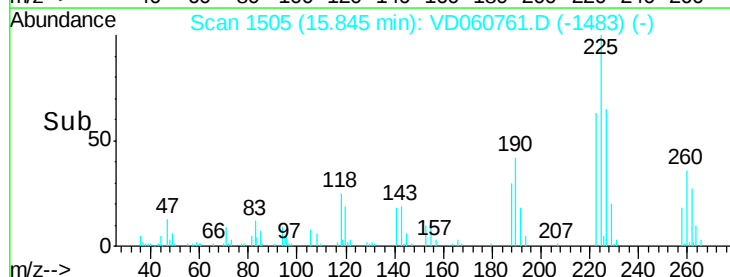
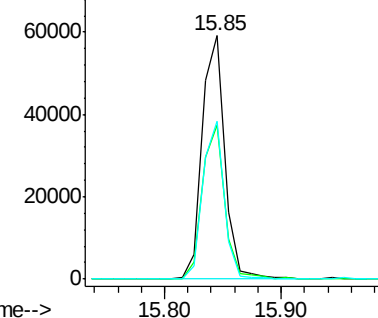


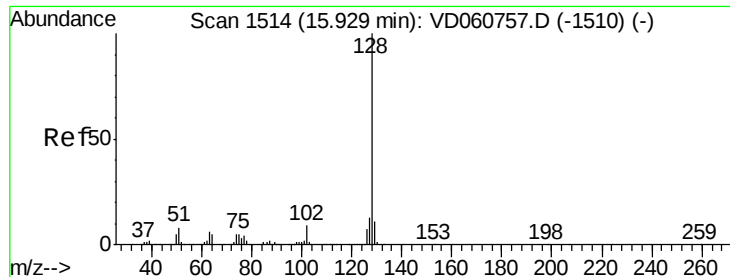
#94
 Hexachlorobutadiene
 Concen: 6.004 ug/l
 RT: 15.85 min Scan# 1505
 Delta R.T. 0.02 min
 Lab File: VD060761.D
 Acq: 18 Jan 2019 14:29

Tgt Ion:225 Resp: 79788
 Ion Ratio Lower Upper
 225 100
 223 63.2 31.3 93.8
 227 64.6 32.5 97.4



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 8.940 ug/l

RT: 15.92 min Scan# 1513

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

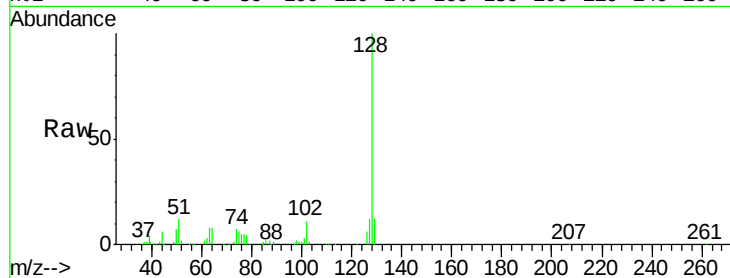
Tot Ion:128 Resp: 191023

Ion Ratio Lower Upper

128 100

127 12.4 10.1 15.1

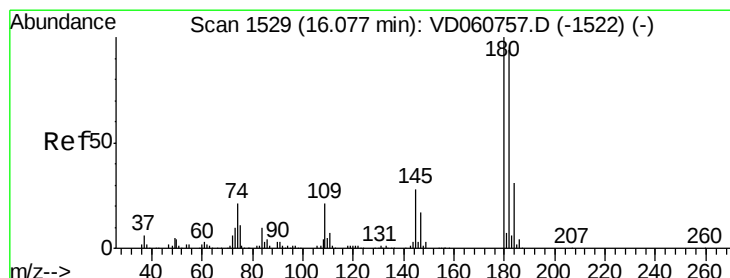
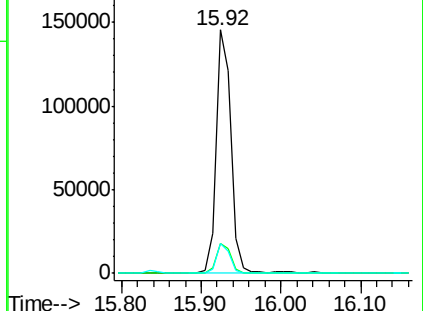
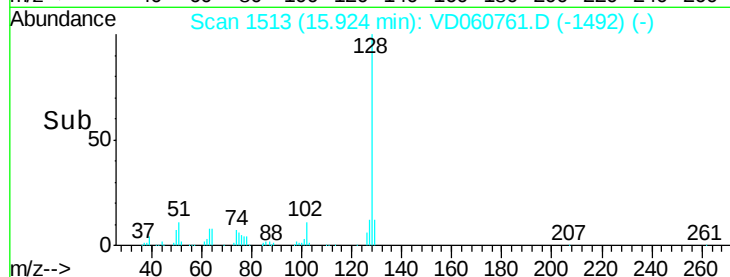
129 12.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 7.391 ug/l

RT: 16.07 min Scan# 1528

Delta R.T. 0.01 min

Lab File: VD060761.D

Acq: 18 Jan 2019 14:29

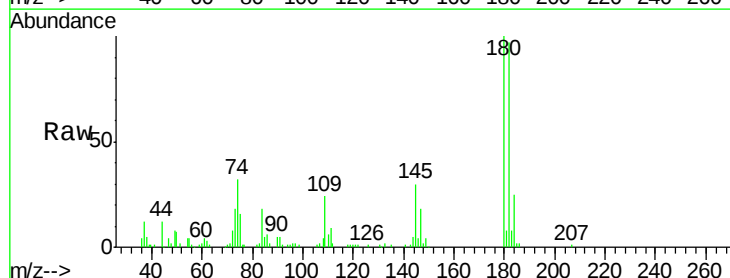
Tgt Ion:180 Resp: 103872

Ion Ratio Lower Upper

180 100

182 97.0 48.6 145.9

145 30.5 12.6 37.8



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

