

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032620\
 Data File : VW015147.D
 Acq On : 26 Mar 2020 12:52
 Operator : SY/VA
 Sample : L2045-02
 Misc : 9.39G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Mar 27 01:06:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM032520S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 27 01:00:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	244247	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	115170	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	23781	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	166345	39.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	157.76%#
7) Chloroethane-d5	2.89	69	138583	39.84	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	159.36%#
10) 1,1-Dichloroethene-d2	4.02	63	176231	20.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	83.16%
20) 2-Butanone-d5	7.08	46	89606	93.33	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	186.66%#
24) Chloroform-d	7.65	84	219447	30.07	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	120.28%
26) 1,2-Dichloroethane-d4	8.31	65	161651	38.24	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	152.96%#
29) Benzene-d6	8.27	84	387711	52.60	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	210.40%#
33) 1,2-Dichloropropane-d6	9.27	67	141206	57.67	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	230.68%#
37) Toluene-d8	10.32	98	202657	32.26	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	129.04%
38) trans-1,3-Dichloropropene-	10.58	79	45981	49.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	196.24%#
39) 2-Hexanone-d5	10.92	63	54258	150.02	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	300.04%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	53074	31.69	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	126.76%#
61) 1,2-Dichlorobenzene-d4	13.85	152	17794	21.50	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.00%

Target Compounds

					Ovalue
3) Chloromethane	2.32	50	1600	0.455 ug/L	95
5) Vinyl chloride	2.36	62	1967	0.402 ug/L #	1
13) Acetone	4.13	43	177448	207.079 ug/L	99
14) Carbon disulfide	4.38	76	18453	1.371 ug/L	96
16) Methylene chloride	4.92	84	24736	5.925 ug/L	96
21) 2-Butanone	7.17	43	89529	73.766 ug/L	93
30) Cyclohexane	7.93	56	6515	1.734 ug/L #	46
34) Benzene	8.32	78	8133	0.955 ug/L	100
36) Methylcyclohexane	9.34	83	2196	0.616 ug/L #	82
42) cis-1,3-Dichloropropene	10.04	75	3719	1.205 ug/L #	79
43) 4-Methyl-2-pentanone	10.21	43	117938	88.717 ug/L	96
44) Toluene	10.38	91	133022	15.789 ug/L	94
45) trans-1,3-Dichloropropene	10.57	75	2582	0.956 ug/L #	69
49) 2-Hexanone	10.97	43	4764	5.373 ug/L #	87
53) Ethylbenzene	11.73	91	15573	1.711 ug/L	99
54) m,p-Xylene	11.83	106	9688	3.037 ug/L	98
55) o-xylene	12.16	106	3854	1.289 ug/L	93

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Quant Title : VOC Analysis
QLast Update : Fri Mar 27 01:00:03 2020
Response via : Initial Calibration

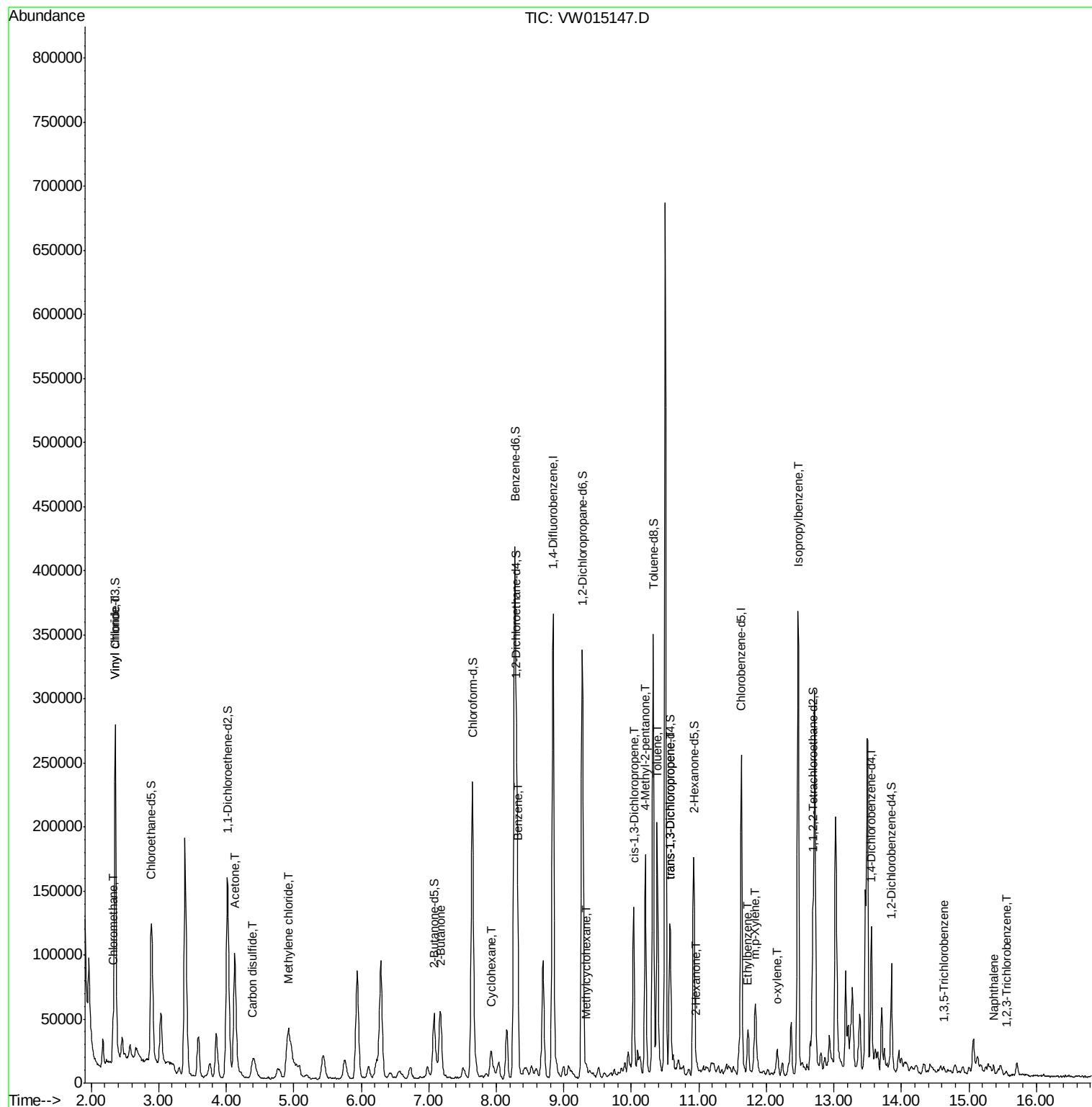
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Isopropylbenzene	12.47	105	17702	2.148	ug/L #	1
67) 1,3,5-Trichlorobenzene	14.63	180	437	0.436	ug/L #	73
69) Naphthalene	15.36	128	3645	2.479	ug/L	97
70) 1,2,3-Trichlorobenzene	15.56	180	512	0.729	ug/L	92

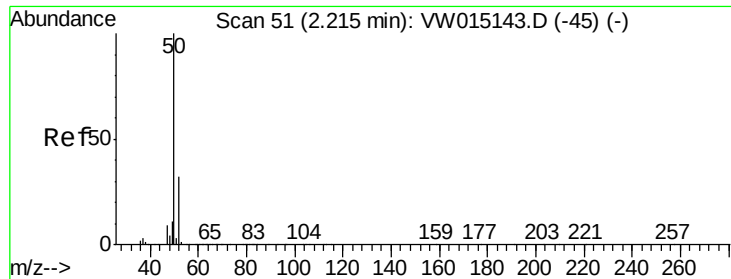
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_W
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#3

Chloromethane

Concen: 0.455 ug/L

RT: 2.32 min Scan# 69

Delta R.T. 0.11 min

Lab File: VW015147.D

Acq: 26 Mar 2020 12:52

Instrument :

MSVOA_W

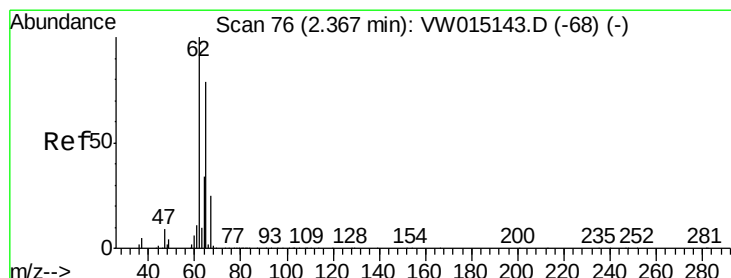
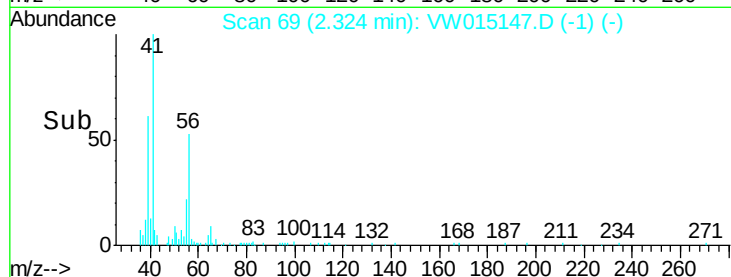
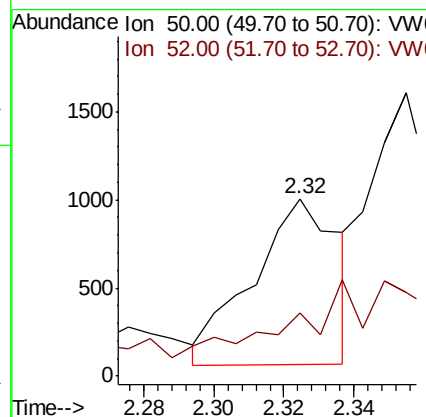
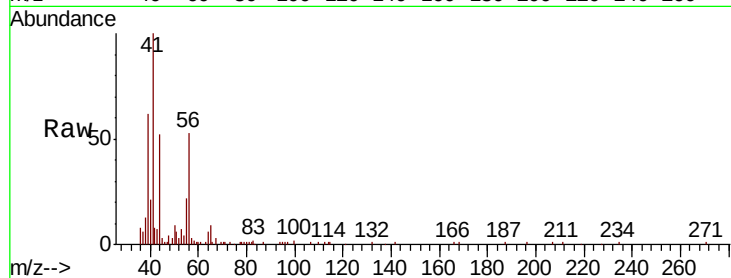
ClientSampled :

Tot Ion: 50 Resp: 1600

Ion Ratio Lower Upper

50 100

52 35.6 23.0 42.8



#5

Vinyl chloride

Concen: 0.402 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015147.D

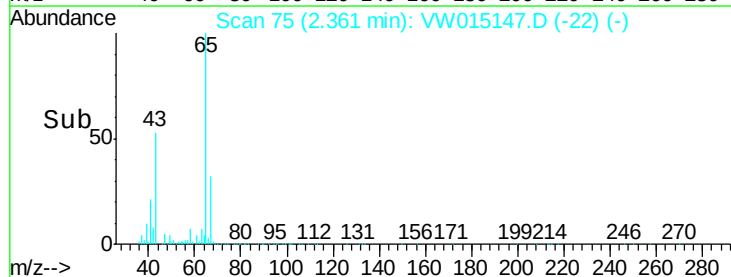
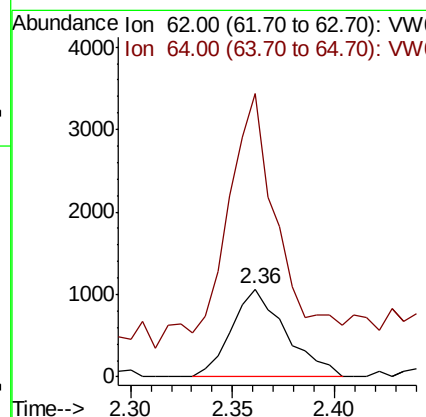
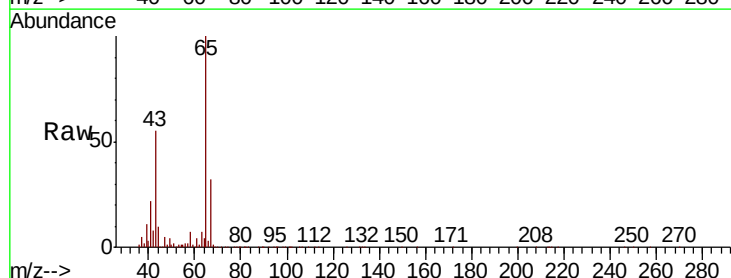
Acq: 26 Mar 2020 12:52

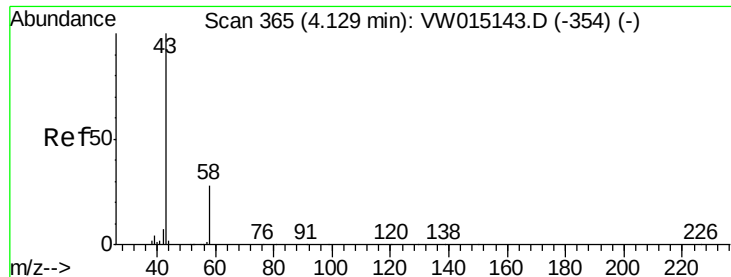
Tgt Ion: 62 Resp: 1967

Ion Ratio Lower Upper

62 100

64 321.0 22.7 42.3#





#13

Acetone

Concen: 207.079 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW015147.D

Acq: 26 Mar 2020 12:52

Instrument :

MSVOA_W

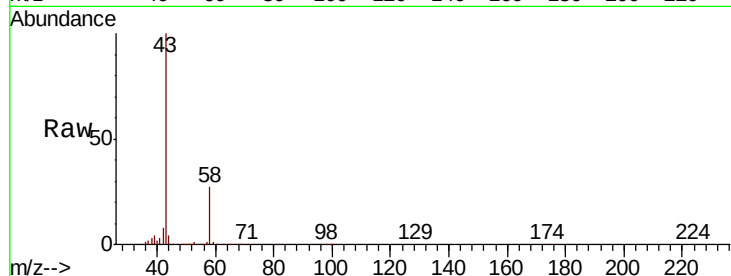
ClientSampleId :

Tot Ion: 43 Resp: 177448

Ion Ratio Lower Upper

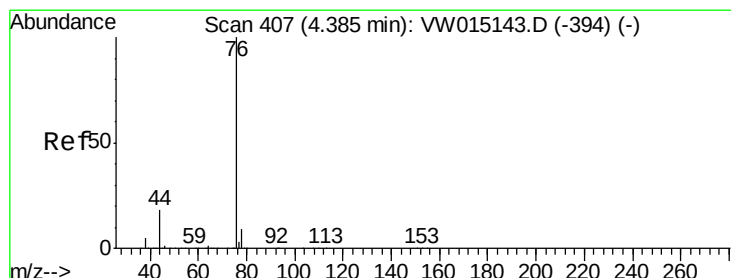
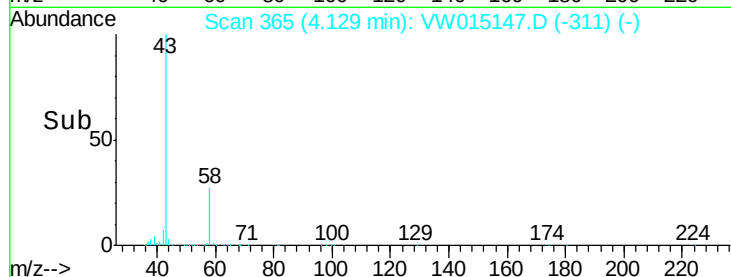
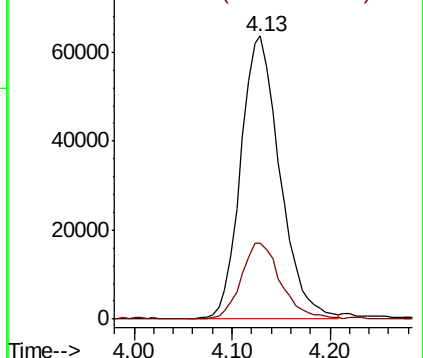
43 100

58 26.9 0.0 54.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 1.371 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW015147.D

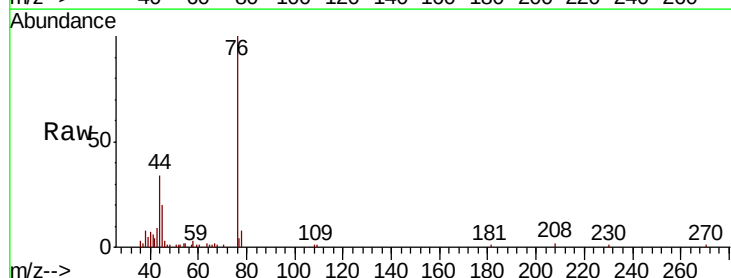
Acq: 26 Mar 2020 12:52

Tgt Ion: 76 Resp: 18453

Ion Ratio Lower Upper

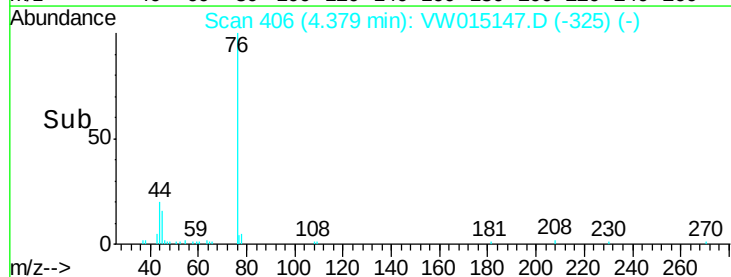
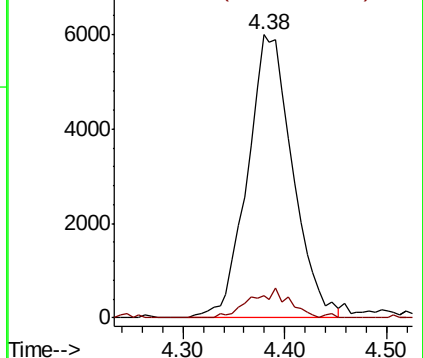
76 100

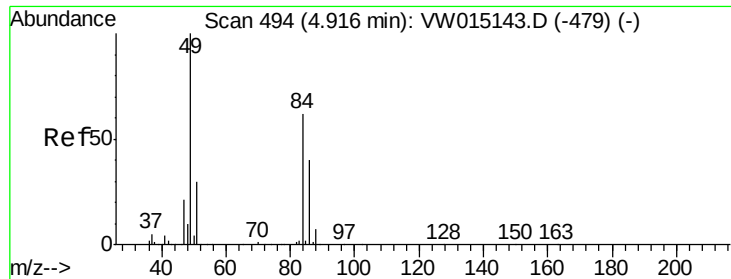
78 7.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

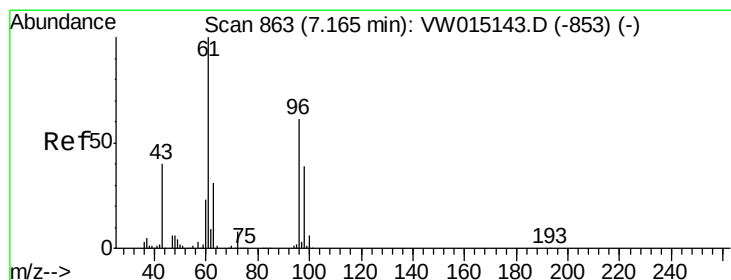
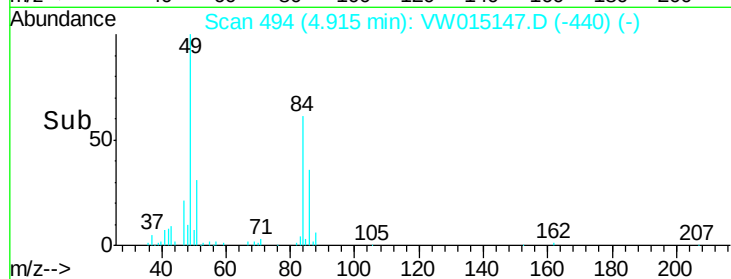
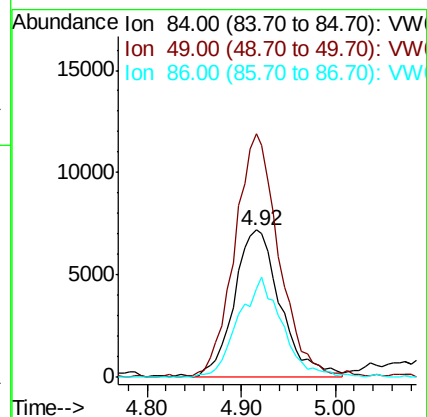
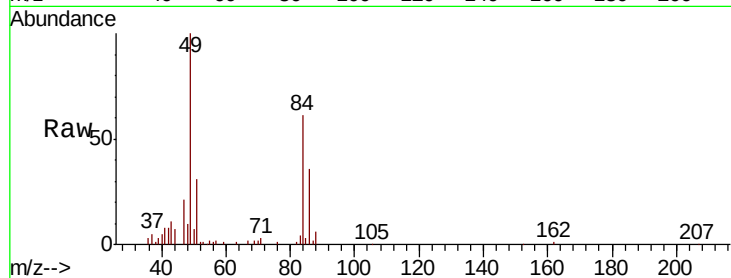




#16
Methylene chloride
Concen: 5.925 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

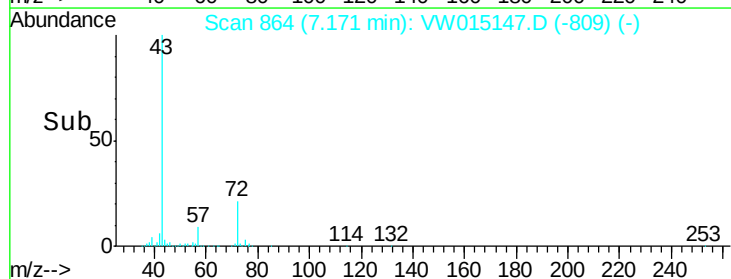
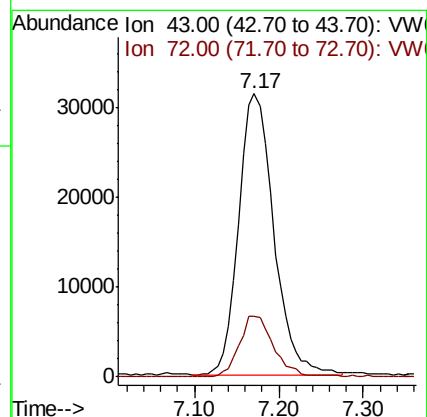
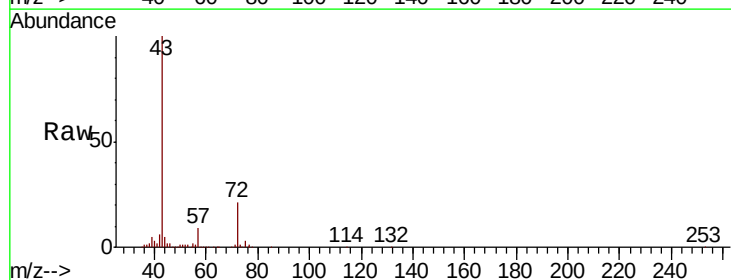
Instrument :
MSVOA_W
ClientSampleId :

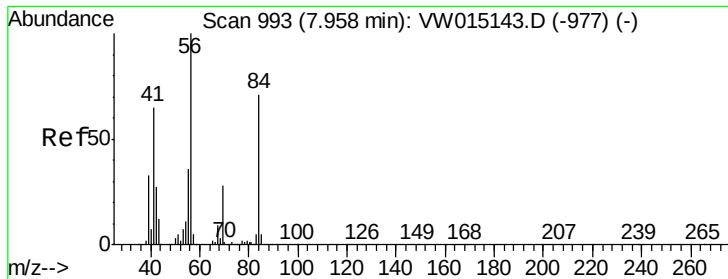
Tot Ion: 84 Resp: 24736
Ion Ratio Lower Upper
84 100
49 165.0 111.7 207.5
86 59.8 44.7 82.9



#21
2-Butanone
Concen: 73.766 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

Tgt Ion: 43 Resp: 89529
Ion Ratio Lower Upper
43 100
72 20.0 11.7 35.0

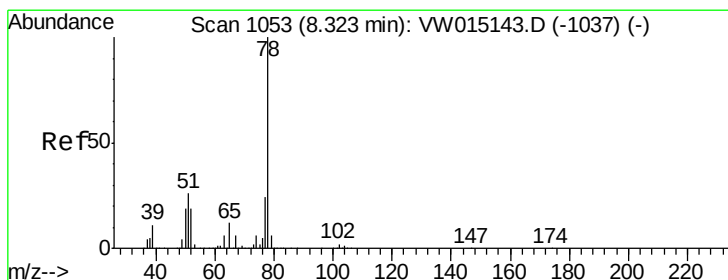
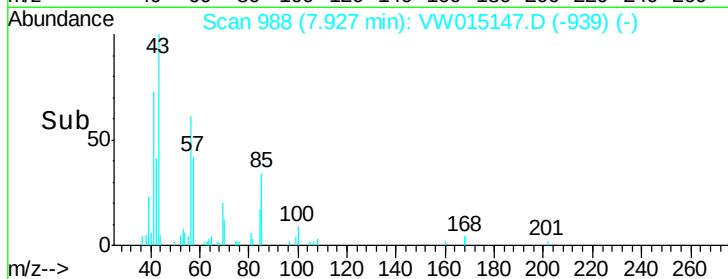
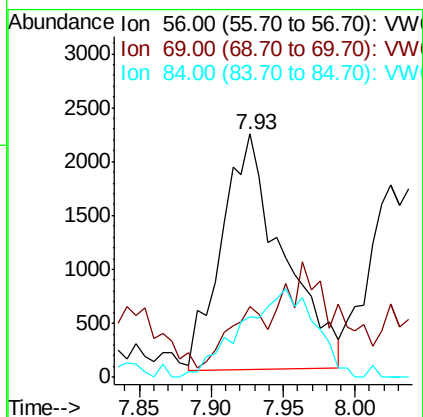
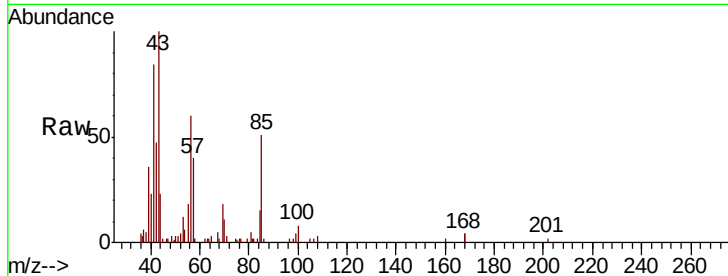




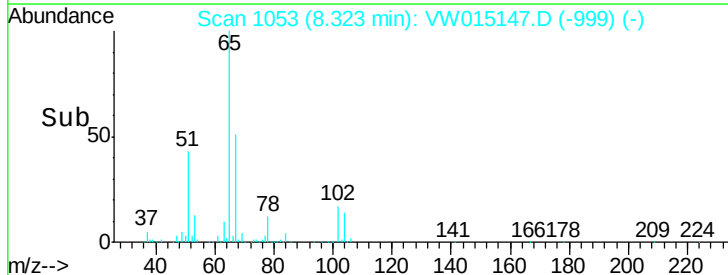
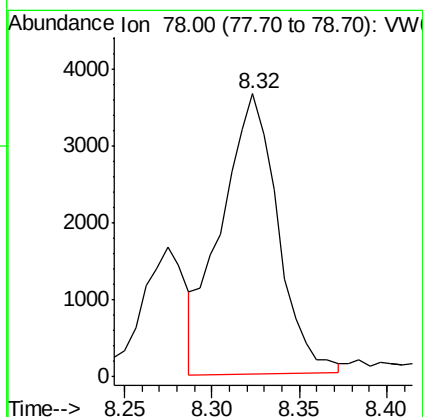
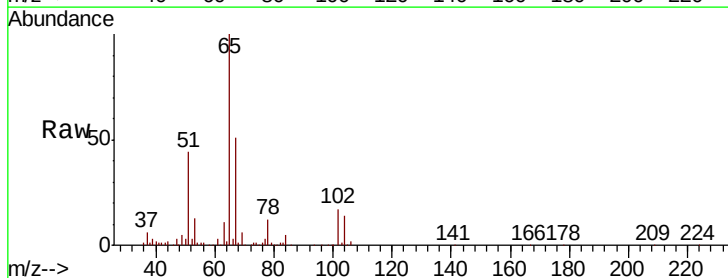
#30
Cyclohexane
Concen: 1.734 ug/L
RT: 7.93 min Scan# 988
Delta R.T. -0.03 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

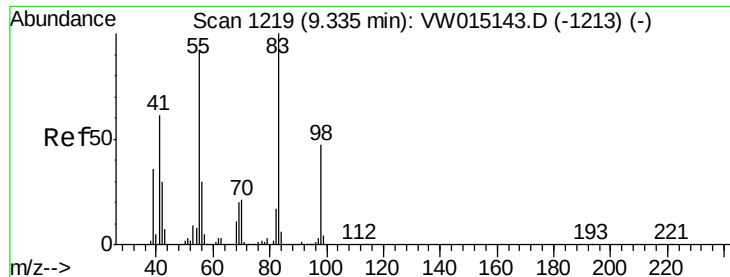
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 6515
Ion Ratio Lower Upper
56 100
69 18.5 22.0 33.0#
84 15.9 58.9 88.3#



#34
Benzene
Concen: 0.955 ug/L
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52
Tgt Ion: 78 Resp: 8133

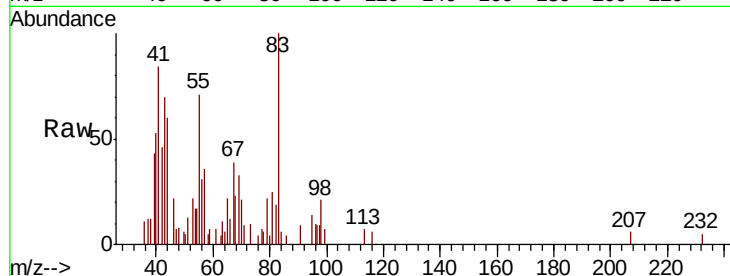




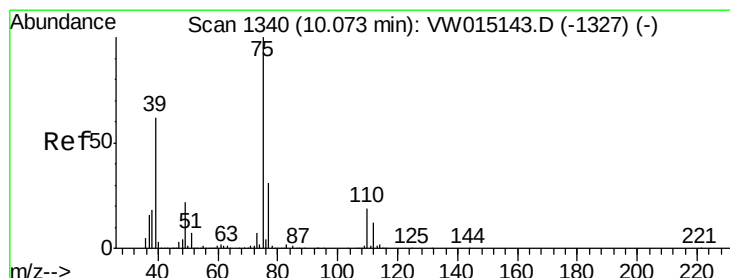
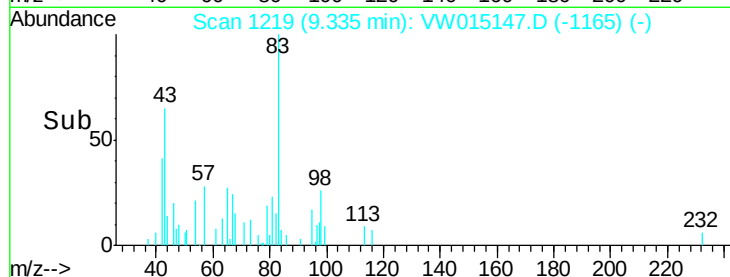
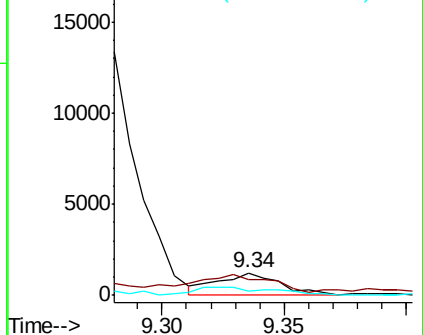
#36
Methylcyclohexane
Concen: 0.616 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 83 Resp: 2196
Ion Ratio Lower Upper
83 100
55 86.4 73.4 110.2
98 18.4 36.6 55.0#

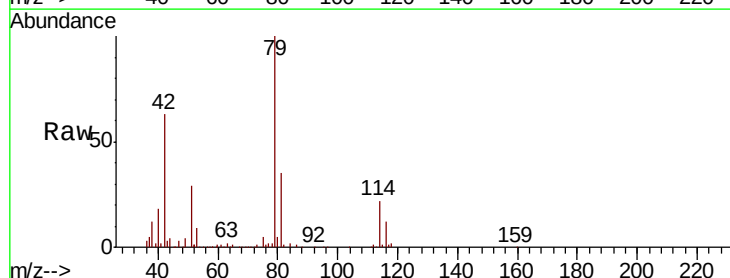


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

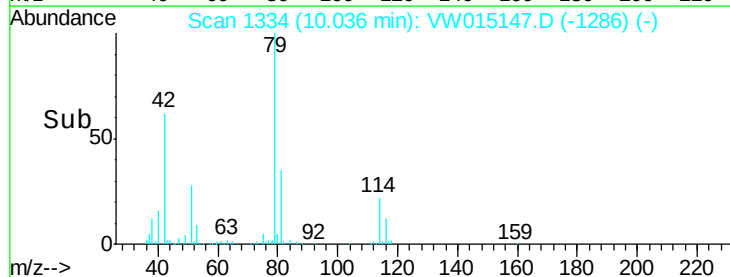
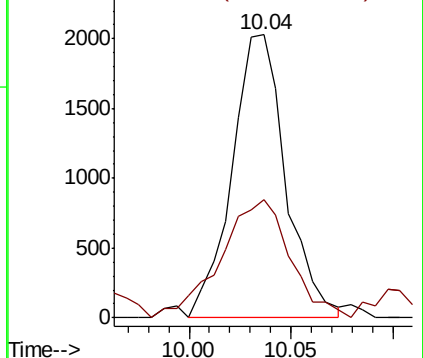


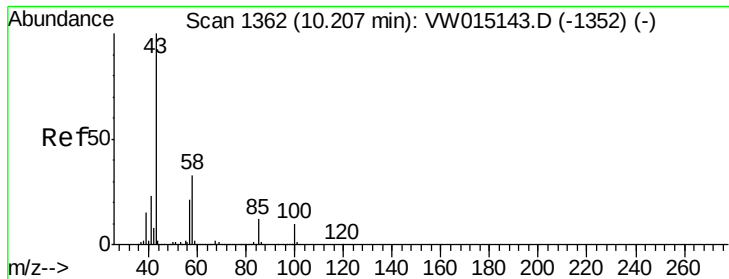
#42
cis-1,3-Dichloropropene
Concen: 1.205 ug/L
RT: 10.04 min Scan# 1334
Delta R.T. -0.04 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

Tgt Ion: 75 Resp: 3719
Ion Ratio Lower Upper
75 100
77 41.9 21.4 39.8#



Abundance Ion 75.00 (74.70 to 75.70): VW
Ion 77.00 (76.70 to 77.70): VW

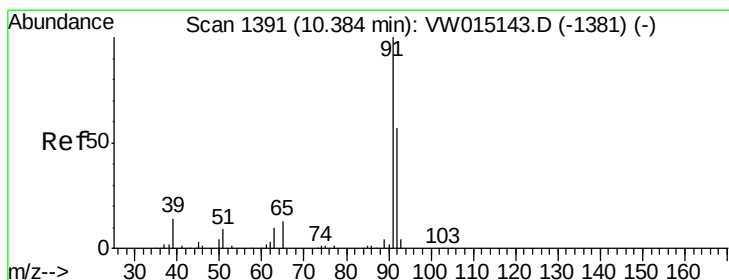
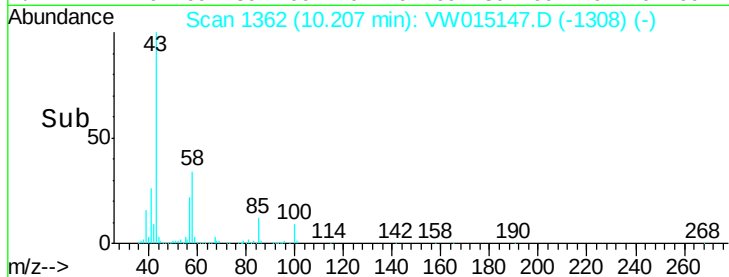
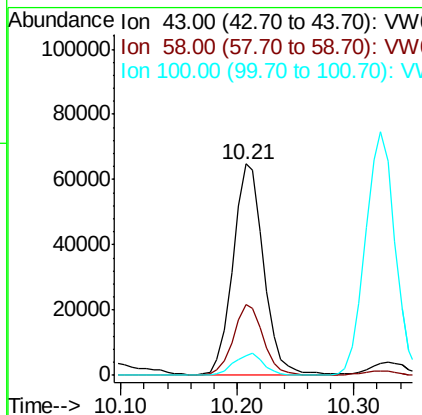
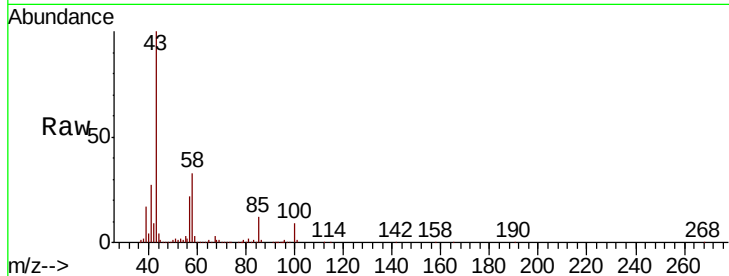




#43
4-Methyl-2-pentanone
Concen: 88.717 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

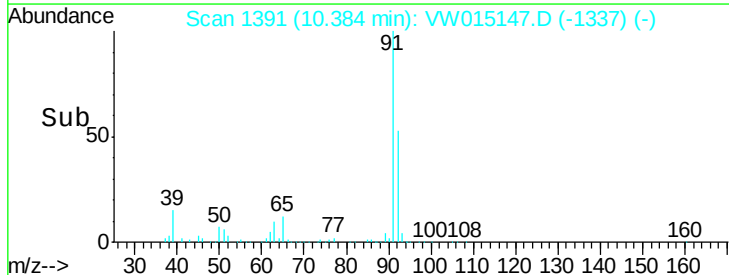
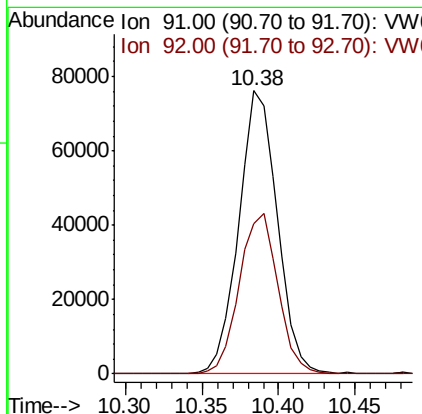
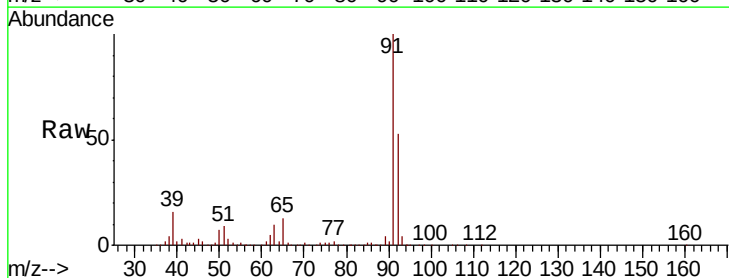
Instrument :
MSVOA_W
ClientSampleId :

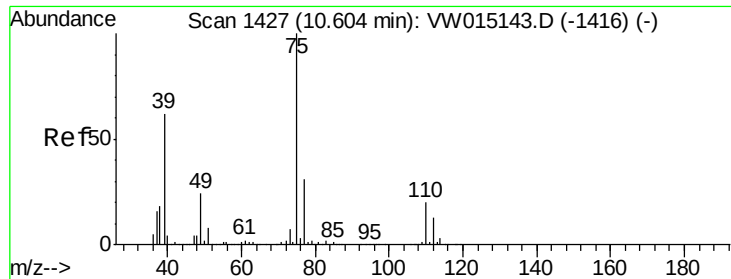
Tot Ion: 43 Resp: 117938
Ion Ratio Lower Upper
43 100
58 32.4 27.9 41.9
100 10.2 8.9 13.3



#44
Toluene
Concen: 15.789 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

Tgt Ion: 91 Resp: 133022
Ion Ratio Lower Upper
91 100
92 53.0 40.2 74.6





#45

trans-1,3-Dichloropropene

Concen: 0.956 ug/L

RT: 10.57 min Scan# 1421

Delta R.T. -0.04 min

Lab File: VW015147.D

Acq: 26 Mar 2020 12:52

Instrument :

MSVOA_W

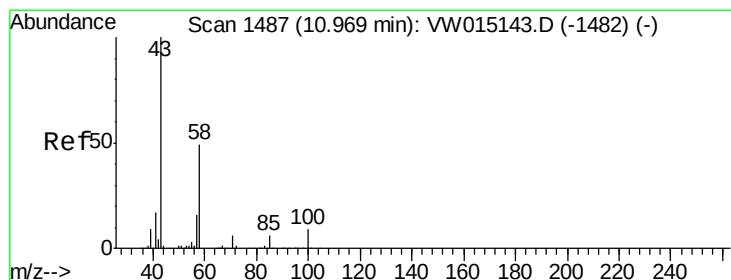
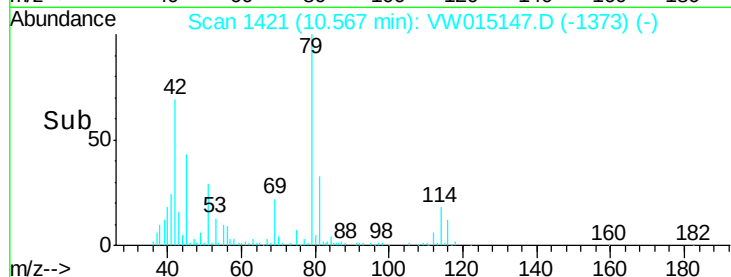
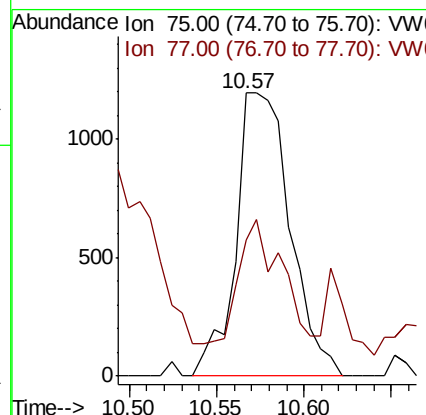
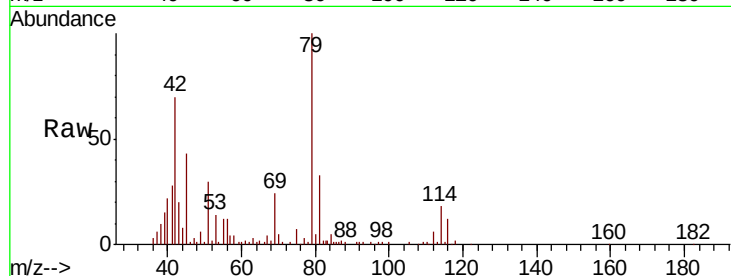
ClientSampleId :

Tot Ion: 75 Resp: 2582

Ion Ratio Lower Upper

75 100

77 48.2 21.8 40.4#



#49

2-Hexanone

Concen: 5.373 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW015147.D

Acq: 26 Mar 2020 12:52

Tgt Ion: 43 Resp: 4764

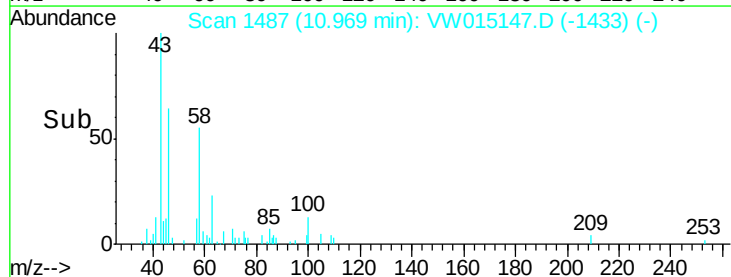
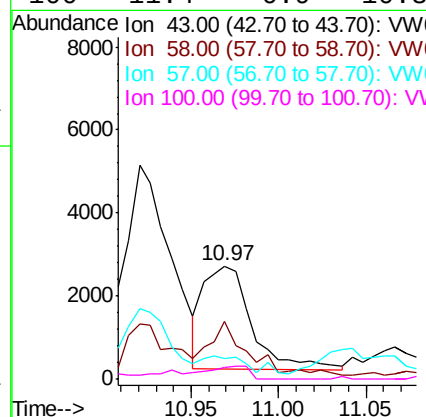
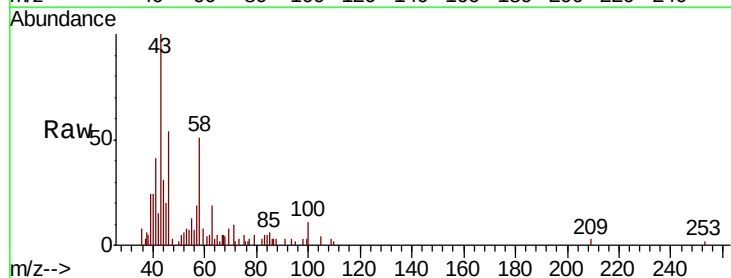
Ion Ratio Lower Upper

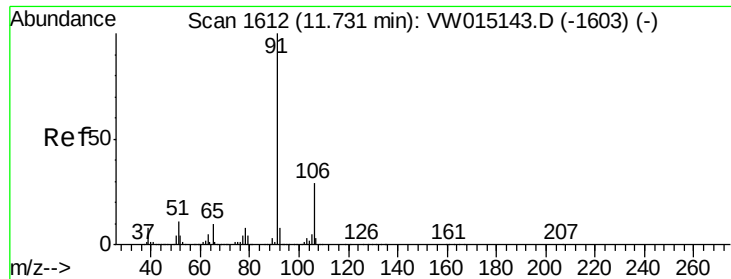
43 100

58 42.0 38.5 57.7

57 3.6 12.9 19.3#

100 11.4 6.9 10.3#

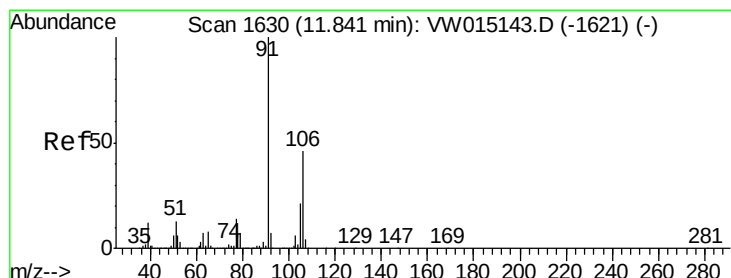
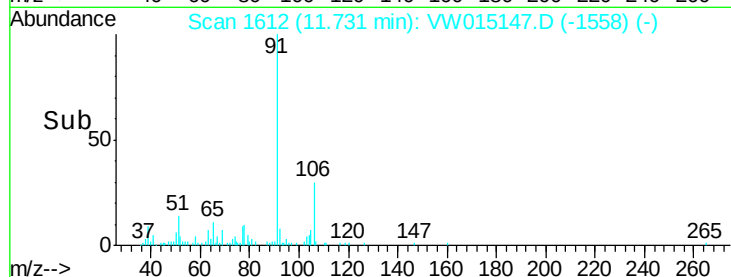
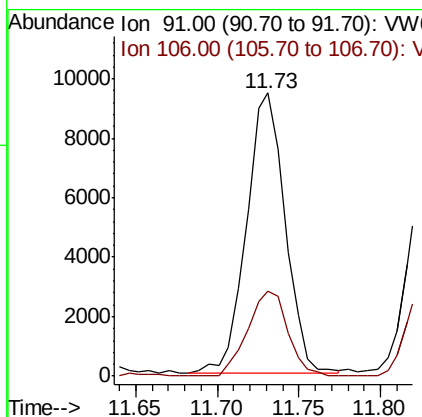
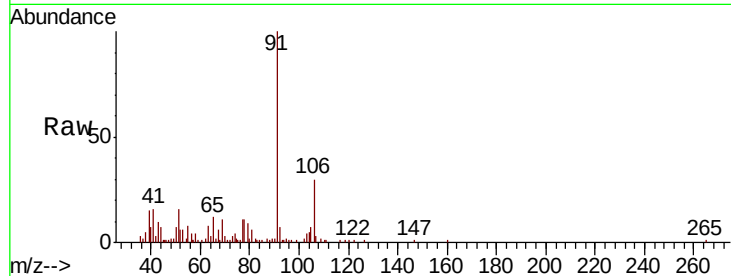




#53
Ethylbenzene
Concen: 1.711 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

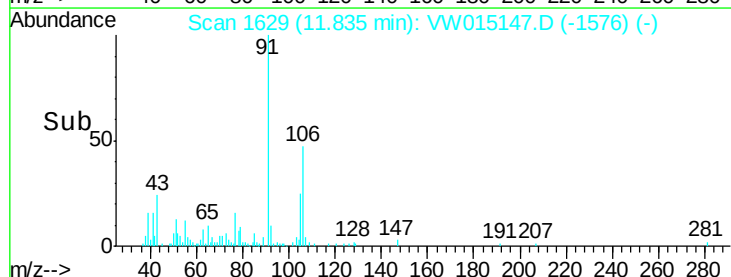
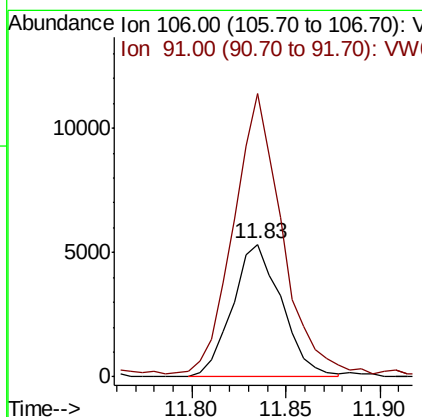
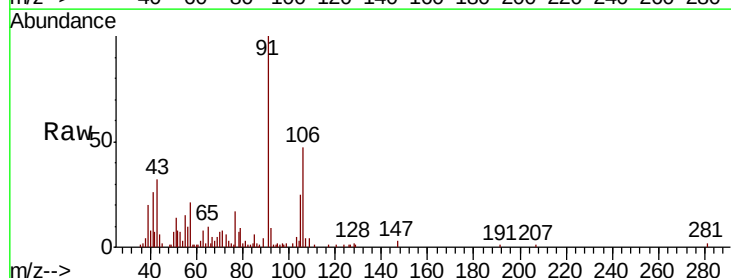
Instrument :
MSVOA_W
ClientSampleId :

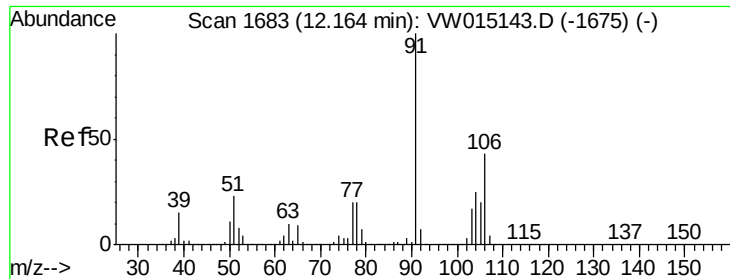
Tot Ion: 91 Resp: 15573
Ion Ratio Lower Upper
91 100
106 30.0 20.6 38.2



#54
m,p-Xylene
Concen: 3.037 ug/L
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

Tgt Ion:106 Resp: 9688
Ion Ratio Lower Upper
106 100
91 213.1 147.3 273.6

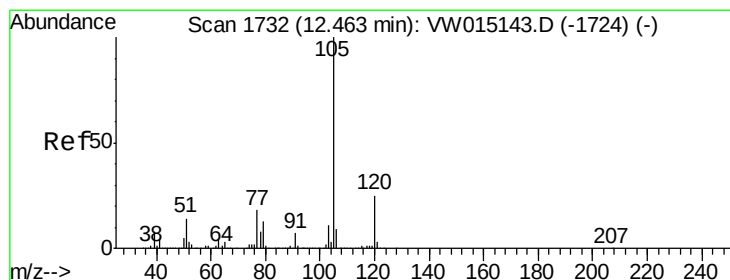
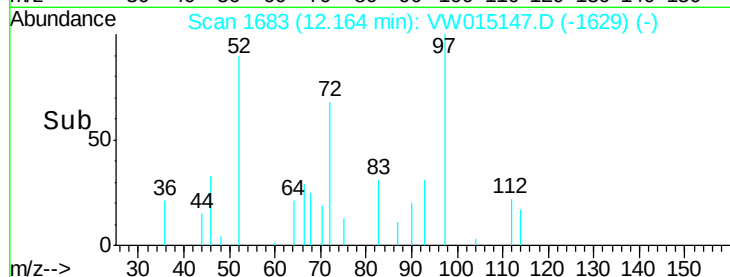
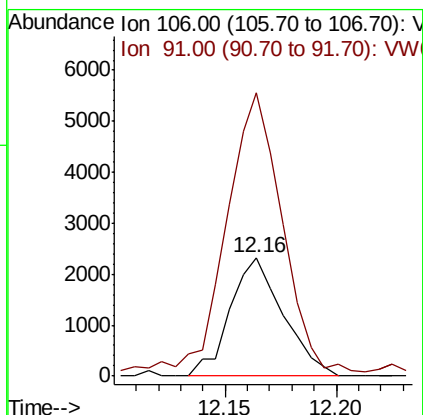
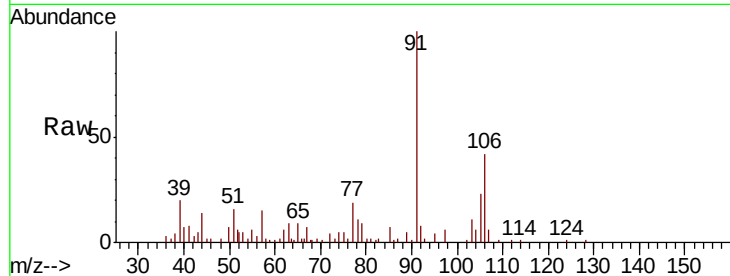




#55
o-xylene
Concen: 1.289 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

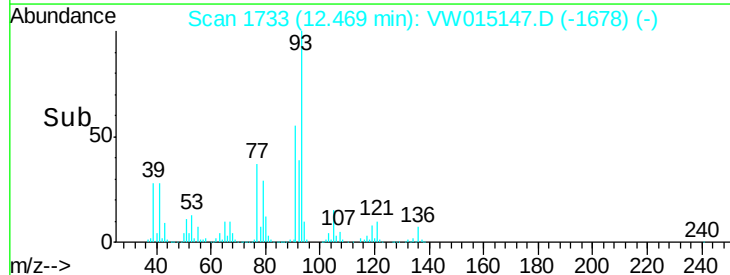
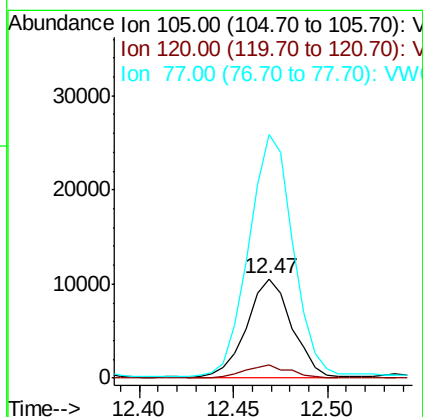
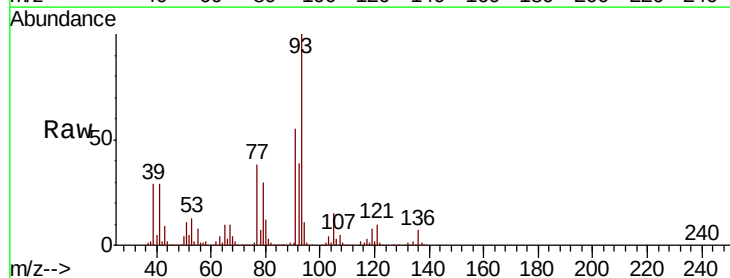
Instrument :
MSVOA_W
ClientSampled :

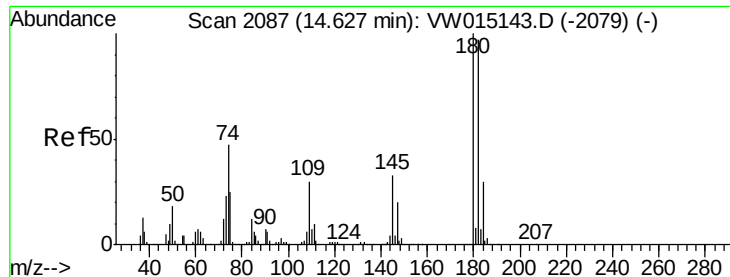
Tot Ion:106 Resp: 3854
Ion Ratio Lower Upper
106 100
91 238.7 158.6 294.6



#57
Isopropylbenzene
Concen: 2.148 ug/L
RT: 12.47 min Scan# 1733
Delta R.T. 0.01 min
Lab File: VW015147.D
Acq: 26 Mar 2020 12:52

Tgt Ion:105 Resp: 17702
Ion Ratio Lower Upper
105 100
120 13.2 20.0 30.0#
77 237.9 14.5 21.7#

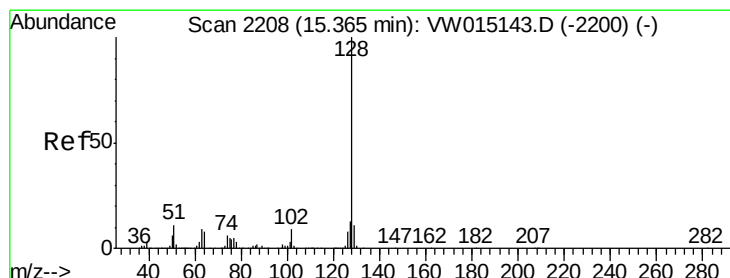
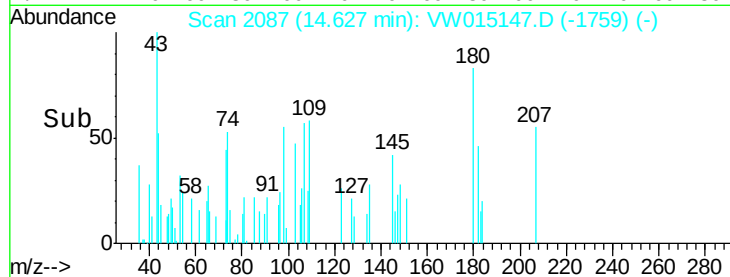
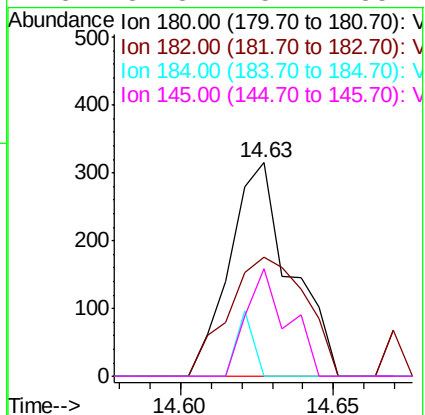
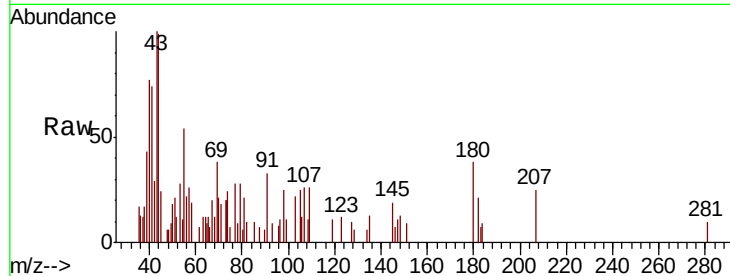




#67
 1,3,5-Trichlorobenzene
 Concen: 0.436 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW015147.D
 Acq: 26 Mar 2020 12:52

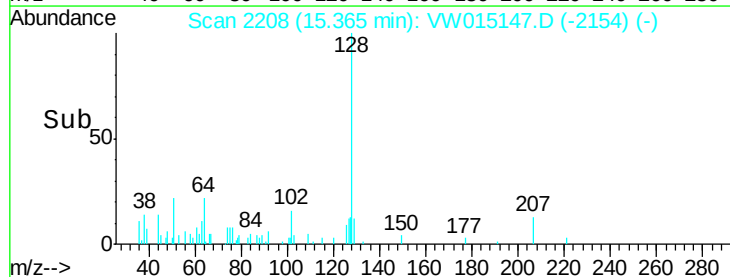
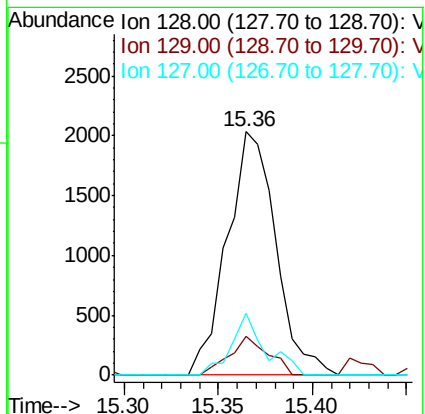
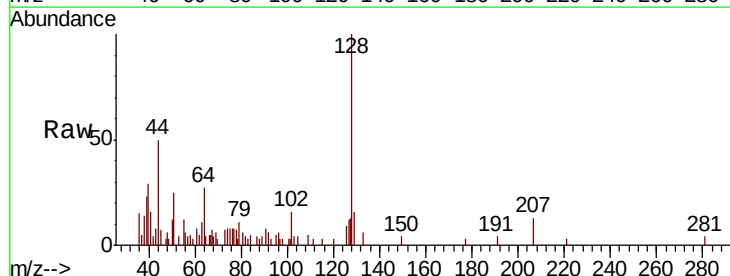
Instrument :
 MSVOA_W
 ClientSampled :

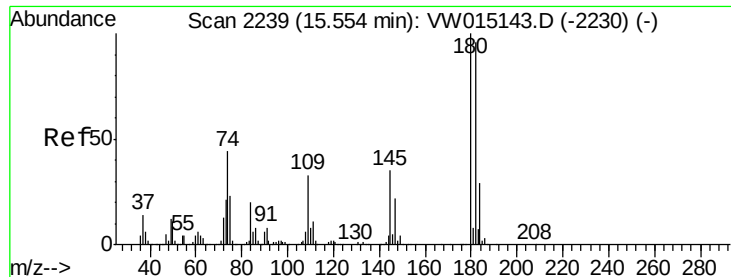
Tot Ion:	180	Resp:	437
Ion	Ratio	Lower	Upper
180	100		
182	70.5	77.0	115.6#
184	0.0	24.0	36.0#
145	34.3	25.4	38.2



#69
 Naphthalene
 Concen: 2.479 ug/L
 RT: 15.36 min Scan# 2208
 Delta R.T. -0.00 min
 Lab File: VW015147.D
 Acq: 26 Mar 2020 12:52

Tgt Ion:	128	Resp:	3645
Ion	Ratio	Lower	Upper
128	100		
129	12.6	8.9	13.3
127	14.5	11.0	16.4

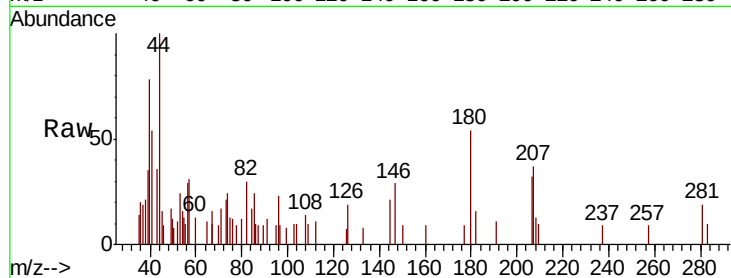




#70
 1,2,3-Trichlorobenzene
 Concen: 0.729 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW015147.D
 Acq: 26 Mar 2020 12:52

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.5	75.9	113.9
145	30.5	27.6	41.4



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

